

REPORT, RETURNS AND STATISTICS
OF THE
INLAND REVENUES
OF THE
DOMINION OF CANADA
FOR THE FISCAL YEAR ENDED JUNE 30
1906
PART III
ADULTERATION OF FOOD

PRINTED BY ORDER OF PARLIAMENT



OTTAWA
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1906

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REPORT
OF THE
DEPUTY MINISTER OF INLAND REVENUE.

INSPECTION OF FOODS, DRUGS AND FERTILIZERS.

To the Hon. WM. TEMPLEMAN,
Minister of Inland Revenue.

SIR,—I have the honour to submit herewith the reports of the official analysts of the Dominion for the fiscal year ended June 30, 1906.

The following is a summary statement of the number of collected samples analysed by the district analysts during the fiscal year ended June 30, 1906 :—

Description of Sample.	Genuine.	Doubtful.	Adulterated.	Total.
Vinegar	135	53	12	200
Jam			2	2
Cream of tartar	128	2	40	170
Milk, cream, &c.	244	76	44	364
Fertilizers as sold	66	32	17	115
	573	163	115	851

The following is a summary statement of the collected samples analysed by the Chief Analyst and staff at the Inland Revenue Laboratory in Ottawa for the year ended June 30, 1906 :—

Description of Sample.	Genuine.	Doubtful.	Adulterated.	Total.
Ground pepper	171	3	116	290
Domestic butter.....	172	8		180
Vinegar.....	21	21		42
Cream of tartar	9	1		10
Tincture of ginger.....	91	3	14	108
Olive oil.....	90	2	16	108
Highly coloured confectionery.....	111			111
Patent medicines and headache powders		45		45
Commercial extract of Lemon.....	32	78		110
Bluestone and formalin.....	27	5	2	34
Cattle feed and stock food.....		125	2	127
Cattle medicine.....		35		35
Fruit preserves	53	47	82	182
Maple syrup and sugar.....	165	22	147	334
Milk		3		3
Honey	44		10	54
Canned meats.....	318	4		322
	1,304	402	389	2,095

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The following statement shows the total number of samples examined during the fiscal year ended June 30, 1903, 1904, 1905 and 1906, respectively:—

	DURING THE FISCAL YEAR ENDED JUNE 30.			
	1903.	1904.	1905.	1906.
1. Number of samples collected by the food inspectors for examination	541	1,417	731	2,944
2. Number of these samples examined by the public analysts	163	213	305	849
3. Number of these samples examined in the laboratory here	425	1,341	624	2,469
4. Number of samples examined at the laboratory here, duplicates of which were not analysed by the public analysts	1,017	1,808	957	2,677
This number however includes the following :—				
Samples of beer	70	15	31	18
" vinegar	366	239	239	273
" molasses			34	
Standard fertilizers	128	111	120	153
Sundry others		83	119	74
Samples examined for other departments :—				
Marine and Fisheries	8	1	2	42
Public Works			3	
Militia and Defence	16	5	2	22
Indian Affairs	2	2		
Agriculture	3			
Police Branches		1	6	
Interior		3	3	
Trade and Commerce				
Railways and Canals	97	7		
Customs	4			
Printing Bureau			4	
Post Office			2	

In my report for the fiscal year ended June 30, 1904, reference was made as to the desirability of establishing standards of purity for food and it was pointed out that very few of the older nations had yet seen their way, except in respect of a very limited number of articles, to establish such standards.

The Chief Analyst in his report attached hereto submits a recent circular on this subject, issued by the United States Department of Agriculture and which, for the information of persons interested, has been included in and forms a part of the report of this department.

The question of establishing standards of purity for food products in Canada will be at once taken up.

As stated in my report for last fiscal year many dealers complain that they are unable to determine whether or not goods purchased by them are unadulterated and that in consequence they are made to suffer unjustly.

The remedy for this condition of affairs rests with the dealers themselves as they have only to secure from the manufacturer or wholesale dealer, from whom their supplies are obtained, the warrant that the goods furnished are pure and unadulterated.

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With this in their possession the department is enabled to bring the manufacturer, or wholesale dealer, into the case and inflict punishment where such belongs.

Several convictions have been secured in connection with the sale of adulterated food and a number of cases are now in the hands of the Department of Justice for prosecution. It is hoped that benefit to the general public will result therefrom.

I have the honour to be, sir, your obedient servant,

W. J. GERALD,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, November 8, 1906.

REPORT OF THE CHIEF ANALYST

317 QUEEN STREET,

OTTAWA, November 7, 1906.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to submit the following report for the year ended June 30, 1906, regarding the work of the Laboratory Branch.

The total number of samples collected by the food inspectors for examination was 2,944 which number includes many whose examination was not completed until the middle of August, 1906. The nature of these collections and the results of the analyses were all reported to you previous to the end of that month, and by your authorization, published as bulletins, so that there are on the present occasion no ‘inspections’ remaining to be introduced as was frequently the case in former annual reports. The bulletins which have reference to the above mentioned 2,944 samples are as follows :—

Number of Bulletin.	Subject.	Number of Samples.
106	Ground pepper..	290
107	Domestic butter	180
108	Vinegar.....	242
109	Cream of tartar.....	180
110	Tincture of ginger	108
111	Olive oil.....	108
112	Highly coloured confectionery	111
113	Patent medicine and headache powders.....	45
114	Extract of lemon.....	110
115	Bluestone and formalin.....	34
116	Cattle feed and stock food.....	127
117	Cattle medicines.....	35
119	Fruit preserves.....	182
120	Maple sugar and syrup.....	334
121	Whole milk, cream and buttermilk.....	367
122	Honey.....	54
123	Canned meats.....	322
124	Fertilizers as sold.....	115
		2,944

The number of these samples which were submitted to the district analysts for analysis amounted, according to their annual reports, to 849, thus leaving 2,095 as the number examined only in this laboratory. It has, however, to be mentioned that out of the 849 samples just mentioned there were 374 whose examinations were revised by the analysts here.

Besides what has already been mentioned the following additional analytical work was carried out in this laboratory :—

Standard fertilizers, 1906 (Bulletin No. 118). 153 samples examined for the following departments :—

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I submit also copies of the bulletins above enumerated for publication as is customary in the annual report.

In your report to the Honourable the Minister for the year ended June 30, 1904, mention is made of the attempts in other countries to establish food standards. Since then, the progress in this respect has been very considerable in the United States, where a large number of 'Standards of Purity' have been adopted. I submit herewith the most recent circular on the subject issued by the United States Department of Agriculture and would suggest its publication with this report, for the information of the public and others interested.

I have the honour to be, sir, your obedient servant,

THOMAS MACFARLANE,
Chief Analyst.

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UNITED STATES DEPARTMENT OF AGRICULTURE

Office of the Secretary.—Circular No. 19.

STANDARDS OF PURITY FOR FOOD PRODUCTS.

Superseding Circulars Nos. 13 and 17.

SUPPLEMENTAL PROCLAMATION.

Referring to Circular No. 13 of this office, dated December 20, 1904, and to Circular No. 17 of this office, dated March 8, 1906, the following food standards are hereby established as superseding and supplemental to those proclaimed on the dates above named.

WASHINGTON, D.C., June 26, 1906.

JAMES WILSON,
Secretary of Agriculture.

LETTER OF SUBMITTAL.

The Honourable the Secretary of Agriculture.

SIR,—The undersigned, representing the Association of Official Agricultural Chemists of the United States and the Interstate Food Commission, and commissioned by you, under authority given by the Act of Congress approved March 3, 1903, to collaborate with you 'to establish standards of purity for food products and to determine what are regarded as adulterations therein,' respectfully report that they have carefully reviewed, in the light of recent investigations and correspondence, the standards earlier recommended by them and have prepared a set of amended schedules, in which certain changes have been introduced for the purpose of securing increased accuracy of expression and a more perfect correspondence of the chemical limits to the normal materials designated, and from which standards previously proclaimed for several manufactured articles have been omitted because of the unsatisfactory condition of trade nomenclature as applied thereto ; and also additional schedules of standards for ice creams, vegetables and vegetable products, tea and coffee. They respectfully recommend that the standards herewith submitted be approved and proclaimed as the established standards, superseding and supplementing those established on December 20, 1904, and March 8, 1906.

The principles that have guided us in the formation of these standards are appended hereto.

The several schedules of additional standards recommended have been submitted, in a tentative form, to the manufacturing firms and the trade immediately interested, and also to the state food-control officials for criticism.

Respectfully,

WILLIAM FREAR,
EDWARD H. JENKINS,
M. A. SCOVELL,
H. A. WEBER,
H. W. WILEY,

*Committee on Food Standards,
Association of Official Agricultural Chemists.*

RICHARD FISCHER,
Representing the Interstate Food Commission.

WASHINGTON, D.C., June 26, 1906.

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PRINCIPLES ON WHICH THE STANDARDS ARE BASED.

The general considerations which have guided the committee in preparing the standards for food products are the following :—

1. The standards are expressed in the form of definitions, with or without accompanying specifications of limit in composition.
2. The main class of food articles are defined before the subordinate class are considered.
3. The definitions are so framed as to exclude from the articles defined substances not included in the definitions.
4. The definitions include, where possible, those qualities which make the articles described wholesome for human food.
5. A term defined in any of the several schedules has the same meaning wherever else it is used in this report.
6. The names of food products herein defined usually agree with existing American trade or manufacturing usage ; but where such usage is not clearly established or where trade names confuse two or more articles for which specific designations are desirable, preference is given to one of the several trade names applied.
7. Standards are based upon data representing materials produced under American conditions and manufactured by American processes or representing such varieties of foreign articles as are chiefly imported for American use.
8. The standards fixed are such that a departure of the articles to which they apply, above the maximum or below the minimum limit prescribed, is evidence that such articles are of interior or abnormal quality.
9. The limits fixed as standard are not necessarily the extremes authentically recorded for the article in question, because such extremes are commonly due to abnormal conditions of production and are usually accompanied by marks of inferiority or abnormality readily perceived by the producer or manufacturer.

FOOD STANDARDS.

1. ANIMAL PRODUCTS.

A. MEATS AND THE PRINCIPAL MEAT PRODUCTS.

A. Meats.

1. *Meat, flesh*, is any clean, sound, dressed and properly prepared edible part of animals in good health at the time of slaughter, and if it bears a name descriptive of its kind, composition, or origin, it corresponds thereto. The term 'animals,' as herein used, includes not only mammals, but fish, fowl, crustaceans, mollusks and all other animals used as food.

2. *Fresh meat* is meat from animals recently slaughtered and properly cooled until delivered to the consumer.

3. *Cold storage meat* is meat from animals recently slaughtered and preserved by refrigeration until delivered to the consumer.*

4. *Salted, pickled and smoked meats* are unmixed meats preserved by salt, sugar, vinegar, spices, or smoke, singly or in combination, whether in bulk or in suitable containers.†

* The establishment of proper periods of time for cold storage is reserved for future consideration when the investigations on this subject, authorized by Congress, are completed.

† Suitable containers for keeping moist food products such as syrup, honey, condensed milk, soups, meat extracts, meats, manufactured meats, and undried fruits and vegetables, and wrappers in contact with food products, contain on their surfaces, in contact with the food

B. Manufactured Meats.

1. *Manufactured meats* are meats not included in paragraphs 2, 3 and 4, whether simple or mixed, whole or comminuted, in bulk or in suitable containers,† with or without the addition of salt, sugar, vinegar, spices, smoke, oils or rendered fat. If they bear names descriptive of kind, composition, or origin, they correspond thereto and when bearing such descriptive names, if force or flavoring meats are used, the kind and quantity thereof are made known.

C. Meat Extracts, Meat Peptones, &c.

(Schedule in preparation.)

D. Lard.

1. *Lard* is the rendered fresh fat from hogs in good health at the time of slaughter, is clean, free from rancidity, and contains, necessarily incorporated in the process of rendering, not more than one (1) per cent of substances, other than fatty acids and fat.

2. *Leaf lard* is lard rendered at moderately high temperatures from the internal fat of the abdomen of the hog, excluding that adherent to the intestines, and has an iodine number not greater than sixty (60).

3. *Neutral lard* is lard rendered at low temperatures.

B. MILK AND ITS PRODUCTS.

A. Milk.

1. *Milk* is the fresh, clean, lacteal secretion obtained by the complete milking of one or more healthy cows, properly fed and kept, excluding that obtained within fifteen days before and ten days after calving, and contains not less than eight and one-half (8.5) per cent of solids not fat, and not less than three and one-quarter (3.25) per cent of milk fat.

2. *Blended milk* is milk modified in its composition so as to have a definite and stated percentage of one or more of its constituents.

3. *Skim milk* is milk from which a part or all of the cream has been removed and contains not less than nine and one-quarter (9.25) per cent of milk solids.

4. *Pasteurized milk* is milk that has been heated below boiling but sufficiently to kill most of the active organisms present and immediately cooled to 50° Fahr. or lower.

5. *Sterilized milk* is milk that has been heated at the temperature of boiling water or higher for a length of time sufficient to kill all organisms present.

6. *Condensed milk, evaporated milk*, is milk from which a considerable portion of water has been evaporated and contains not less than twenty-eight (28) per cent of milk solids, of which not less than twenty-seven and five-tenths (27.5) per cent is milk fat.

7. *Sweetened condensed milk*, is milk from which a considerable portion of water has been evaporated and to which sugar (sucrose) has been added, and contains not less than twenty-eight (28) per cent of milk solids, of which not less than twenty-seven and five-tenths (27.5) per cent is milk fat.

8. *Condensed skim milk*, is skim milk from which a considerable portion of water has been evaporated.

product, no lead, antimony, arsenic, zinc or copper or any compounds thereof or any other poisonous or injurious substance. If the containers are made of tin plate they are outside-soldered and the plate in no place contains less than one hundred and thirteen (113) milligrams of tin on a piece five (5) centimeters square or one and eight-tenths (1.8) grains on a piece two (2) inches square.

The inner coating of the containers is free from pin holes, blisters, and cracks.

If the tin plate is lacquered, the lacquer completely covers the tinned surface within the container and yields to the contents of the container no lead, antimony, arsenic, zinc or copper or any compounds thereof, or any other poisonous or injurious substance.

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9. *Buttermilk* is the product that remains when butter is removed from milk or cream in the process of churning.

10. *Goat's milk, ewe's milk, et cetera*, are the fresh, clean, lacteal secretions, free from colostrum, obtained by the complete milking of healthy animals other than cows, properly fed and kept, and conform in name to the species of animal from which they are obtained.

B. Cream.

1. *Cream* is that portion of milk, rich in milk fat, which rises to the surface of milk on standing, or is separated from it by centrifugal force, is fresh and clean and contains not less than eighteen (18) per cent of milk fat.

2. *Evaporated cream, clotted cream*, is cream from which a considerable portion of water has been evaporated.

C. Milk Fat or Butter Fat.

1. *Milk fat, butter fat*, is the fat of milk and has a Reichert-Meissl number not less than twenty-four (24) and a specific gravity not less than $0.905 \frac{[40^{\circ} \text{ C.}]}{[40^{\circ} \text{ C.}]}$

D. Butter.

1. *Butter* is the clean, non-rancid product made by gathering in any manner the fat of fresh or ripened milk or cream into a mass, which also contains a small portion of the milk constituents, with or without salt, and contains not less than eighty-two and five-tenths (82.5) per cent of milk fat. By acts of Congress approved August 2, 1886, and May 9, 1902, butter may also contain added colouring matter.

2. *Renovated butter, process butter*, is the product made by melting butter and re-working, without the addition or use of chemicals or any substances except milk, cream, or salt, and contains not more than sixteen (16) per cent of water and at least eighty-two and five-tenths (82.5) per cent of milk fat.

E. Cheese.

1. *Cheese* is the sound, solid, and ripened product made from milk or cream by coagulating the casein thereof with rennet or lactic acid, with or without the addition of ripening ferments and seasoning, and contains, in the water-free substances, not less than fifty (50) per cent of milk fat. By act of Congress, approved June 6, 1896, cheese may also contain added colouring matter.

2. *Skim milk cheese* is the sound, solid, and ripened product, made from skim milk by coagulating the casein thereof with rennet or lactic acid, with or without the addition of ripening ferments and seasoning.

3. *Goat's milk cheese, ewe's milk cheese, et cetera*, are the sound, ripened products made from the milks of the animals specified, by coagulating the casein thereof with rennet or lactic acid, with or without the addition of ripening ferments and seasoning.

F. Ice Creams.

1. *Ice cream* is a frozen product made from cream and sugar, with or without a natural flavouring, and contains not less than fourteen (14) per cent of milk fat.

2. *Fruit ice cream* is a frozen product made from cream, sugar, and sounds, clean, mature fruits, and contains not less than twelve (12) per cent of milk fat.

3. *Nut ice cream* is a frozen product made from cream, sugar, and sound, non-rancid nuts, and contains not less than twelve (12) per cent of milk fat.

G. Miscellaneous Milk Products.

1. *Whey* is the product remaining after the removal of fat and casein from milk in the process of cheese-making.

2. *Kumis* is the product made by the alcoholic fermentation of mare's or cow's milk.

II. VEGETABLE PRODUCTS.

A. GRAIN PRODUCTS.

A. Grains and Meals.

1. *Grain* is the fully matured, clean, sound, air-dry seed of wheat, maize, rice, oats, rye, buckwheat, barley, sorghum, millet, or spelt.

2. *Meal* is the clean, sound product made by grinding grain.

3. *Flour* is the fine, clean, sound product made by bolting wheat meal and contains not more than thirteen and one-half (13.5) per cent of moisture, not less than one and twenty-five hundredths (1.25) per cent of nitrogen, not more than one (1) per cent of ash, and not more than fifty hundredths (0.50) per cent of fiber.

4. *Graham flour* is unbolted wheat meal.

5. *Gluten flour* is the clean, sound product made from flour by the removal of starch and contains not less than five and six-tenths (5.6) per cent of nitrogen and not more than ten (10) per cent of moisture.

6. *Maize meal, corn meal, Indian corn meal*, is meal made from sound maize grain and contains not more than fourteen (14) per cent of moisture, not less than one and twelve hundredths (1.2) per cent of nitrogen, and not more than one and six-tenths (1.6) per cent of ash.

7. *Rice* is the hulled, or hulled and polished grain of *Oryza sativa*.

8. *Oatmeal* is meal made from hulled oats and contains not more than twelve (12) per cent of moisture, not more than one and five-tenths (1.5) per cent of crude fiber, not less than two and twenty-four hundredths (2.24) per cent of nitrogen, and not more than two and two-tenths (2.2) per cent of ash.

9. *Rye flour* is the fine, clean, sound product made by bolting rye meal and contains not more than thirteen and one-half (13.5) per cent of moisture, not less than one and thirty-six hundredths (1.36) per cent of nitrogen, and not more than one and twenty-five hundredths (1.25) per cent of ash.

10. *Buckwheat flour* is bolted buckwheat meal and contains no more than twelve (12) per cent of moisture, not less than one and twenty-eight hundredths (1.28) per cent of nitrogen, and not more than one and seventy-five hundredths (1.75) per cent of ash.

B. FRUIT AND VEGETABLES.

A. Fruit and Fruit Products.

(Except fruit juices, fresh, sweet, and fermented and vinegars.)

1. *Fruits* are the clean, sound, edible, fleshy fructifications of plants, distinguished by their sweet, acid, and ethereal flavours.

2. *Dried fruit** is the clean, sound product made by drying mature, properly prepared, fresh fruit in such a way as to take up no harmful substance, and conforms in name to the fruit used in its preparation; *sun-dried fruit* is dried fruit made by drying without the use of artificial means; *evaporated fruit* is dried fruit made by drying with the use of artificial means.

3. *Evaporated apples* are evaporated fruit made from peeled and cored apples, and contains not more than twenty-seven (27) per cent of moisture determined by the usual commercial method of drying for four (4) hours at the temperature of boiling water.

(Standards for other dried fruits are in preparation.)

4. *Canned fruit* is the sound product made by sterilizing clean, sound, properly matured and prepared fresh fruit, by heating, with or without sugar (sucrose) and spices, and keeping in suitable, clean, hermetically sealed containers and conforms in name to the fruit used in its preparation.

* The subject of sulphurous acid in dried fruits is reserved for consideration in connection with the schedule 'Preservatives and Coloring Matters.'

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5. *Preserve*† is the sound product made from clean, sound, properly matured and prepared fresh fruit and sugar (sucrose) sirup, with or without spices or vinegar, and conforms in name to that of the fruit used, and in its preparation not less than forty-five (45) pounds of fruit are used to each fifty-five (55) pounds of sugar.

6. *Honey preserve*† is preserve in which honey is used in place of sugar (sucrose) sirup.

7. *Glucose preserve*† is preserve in which a glucose product is used in place of sugar (sucrose) sirup.

8. *Jam, marmalade*,† is the sound product made from clean, sound, properly matured and prepared fresh fruit and sugar (sucrose), with or without spices or vinegar, by boiling to a pulpy or semisolid consistence, and conforms in name to the fruit used, and in its preparation not less than forty-five (45) pounds of fruit are used to each fifty-five (55) pounds of sugar.

9. *Glucose jam, glucose marmalade*,† is jam in which a glucose product is used in place of sugar (sucrose).

10. *Fruit butter** is the sound product made from fruit juice and clean, sound properly matured and prepared fruit, evaporated to a semisolid mass of homogeneous consistence, with or without the addition of sugar and spices or vinegar, and conforms in name to the fruit used in its preparation.

11. *Glucose fruit butter*† is fruit butter in which a glucose product is used in place of sugar (sucrose).

12. *Jelly** is the sound, semisolid, gelatinous product made by boiling clean, sound, properly matured and prepared fresh fruit with water, concentrating the expressed and strained juice, to which sugar (sucrose) is added, and conforms in name to the fruit used in its preparation.

13. *Glucose Jelly** is jelly in which a glucose product is used in place of sugar (sucrose).

B. Vegetables and Vegetable Products.

1. *Vegetables* are the succulent, clean, sound, edible parts of herbaceous plants used for culinary purposes.

2. *Dried vegetables* are the clean, sound products made by drying properly matured and prepared vegetables in such a way as to take up no harmful substance, and conform in name to the vegetables used in their preparation; *sun-dried vegetables* are dried vegetables made by drying without the use of artificial means; *evaporated vegetables* are dried vegetables made by drying with the use of artificial means.

3. *Canned vegetables* are sound, properly matured and prepared fresh vegetables with or without salt, sterilized by heat, with or without previous cooking in vessels from which they take up no metallic substance, kept in suitable, clean, hermetically sealed containers, are sound and conform in name to the vegetables used in their preparation.

4. *Pickles* are clean, sound, immature cucumbers, properly prepared, without taking up any metallic compound other than salt, and preserved in any kind of vinegar, with or without spices; *pickled onions, pickled beets, pickled beans*, and other pickled vegetables are vegetables prepared as described above, and conform in name to the vegetables used.

5. *Salt pickles* are clean, sound, immature cucumbers, preserved in a solution of common salt, with or without spices.

6. *Sweet pickles* are pickled cucumbers or other vegetables in the preparation of which sugar (sucrose) is used.

† Products made with mixtures of sugar, glucose, and honey, or any two thereof, are reserved for future consideration.

† Products made with mixtures of sugar, glucose, and honey, or any two thereof, are reserved for future consideration.

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7. *Sauerkraut* is clean, sound, properly prepared cabbage, mixed with salt, and subjected to fermentation.

8. *Catchup* (*ketchup*, *catsup*) is the clean, sound product made from the properly prepared pulp of clean, sound, fresh, ripe tomatoes, with spices and with or without sugar and vinegar; *mushroom catchup*, *walnut catchup*, *et cetera*, are catchups made as above described, and conform in name to the substances used in their preparation.

C. SUGARS AND RELATED SUBSTANCES.

A. SUGAR AND SUGAR PRODUCTS.

Sugar.

1. *Sugar* is the product chemically known as sucrose (saccharose) chiefly obtained from sugar cane, sugar beets, sorghum, maple, and palm.

2. *Granulated*, *loaf*, *cut*, *milled*, and *powdered sugars* are different forms of sugar and contains at least ninety-nine and five-tenths (99·5) per cent of sucrose.

3. *Maple sugar* is the solid product resulting from the evaporation of maple sap, and contains, in the water-free substance, not less than sixty-five one-hundredths (0·65) per cent of maple sugar ash.

4. *Massecuite*, *melada*, *mush sugar*, and *concrete* are products made by evaporating the purified juice of a sugar-producing plant, or a solution of sugar, to a solid or semi-solid consistence, and in which the sugar chiefly exists in a crystalline state.

Molasses and Refiners' Syrup.

1. *Molasses* is the product left after separating the sugar from massecuite, melada, mush sugar, or concrete, and contains not more than twenty-five (25) per cent of water and not more than five (5) per cent of ash.

2. *Refiners' syrup*, *treacle*, is the residual liquid product obtained in the process of refining raw sugars and contains not more than twenty-five (25) per cent of water and not more than eight (8) per cent of ash.

Sirups.

1. *Sirup* is the sound product made by purifying and evaporating the juice of a sugar-producing plant without removing any of the sugar.

2. *Sugar-cane sirup* is sirup made by the evaporation of the juice of the sugar-cane or by the solution of sugar-cane concrete, and contains not more than thirty (30) per cent of water and not more than two and five-tenths (2·5) per cent of ash.

3. *Sorghum sirup* is sirup made by the evaporation of sorghum juice or by the solution of sorghum concrete, and contains not more than thirty (30) per cent of water and not more than two and five-tenths (2·5) per cent of ash.

4. *Maple sirup* is sirup made by the evaporation of maple sap or by the solution of maple concrete, and contains not more than thirty-two (32) per cent of water and not less than forty-five hundredths (0·45) per cent of maple sirup ash.

5. *Sugar sirup* is the product made by dissolving sugar to the consistence of a sirup and contains not more than thirty-five (35) per cent of water.

B. Glucose Products.

1. *Starch sugar* is the solid product made by hydrolyzing starch or a starch-containing substance until the greater part of the starch is converted into dextrose. Starch sugar appears in commerce in two forms, anhydrous starch sugar and hydrous starch sugar. The former, crystallized without water of crystallization, contains not less than ninety-five (95) per cent of dextrose and not more than eight-tenths (0·8) per cent of ash. The latter, crystallized with water of crystallization, is of two varieties—70 sugar, also known as brewers' sugar, contains not less than seventy (70) per cent of dextrose and not more than eight-tenths (0·8) per cent of ash; 80 sugar, climax or

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acme sugar, contains not less than eighty (80) per cent of dextrose and not more than one and one-half (1.5) per cent of ash.

The ash of all these products consists almost entirely of chlorids and sulphates.

2. *Glucose, mixing glucose, confectioner's glucose*, is a thick, sirupy, colorless product made by incompletely hydrolyzing starch, or a starch-containing substance, and decolorizing and evaporating the product. It varies in density from forty-one (41) to forty-five (45) degrees Baumé at a temperature of 100° Fahr. (37.7° C.), and conforms in density, within these limits, to the degree Baumé it is claimed to show, and for a density of forty-one (41) degrees Baumé contains not more than twenty-one (21) per cent and for a density of forty-five (45) degrees not more than fourteen (14) per cent of water. It contains on a basis of forty-one (41) degrees Baumé not more than one (1) per cent of ash, consisting chiefly of chlorids and sulphates.

C. Candy.

1. *Candy* is a product made from a saccharine substance or substances with or without the addition of harmless coloring, flavoring, or filling materials and contains no terra alba, barytes, talc, chrome yellow, or other mineral substances, or poisonous colors or flavors, or other ingredients deleterious or detrimental to health, or any vinous, malt, or spirituous liquor or compound, or narcotic drug.

D. Honey.

1. *Honey* is the nectar and saccharine exudations of plants gathered, modified, and stored in the comb by honey bees (*Apis mellifica* and *A. dorsata*); is lævo-rotatory, contains not more than twenty-five (25) per cent of water, not more than twenty-five hundredths (0.25) per cent of ash, and not more than eight (8) per cent of sucrose.

2. *Comb honey* is honey contained in the cells of comb.

3. *Extracted honey* is honey which has been separated from the uncrushed comb by centrifugal force or gravity.

4. *Strained honey* is honey removed from the crushed comb by straining or other means.

D. CONDIMENTS (EXCEPT VINEGAR AND SALT).

A. Spices.

1. *Spices* are aromatic vegetable substances used for the seasoning of food and from which no portion of any volatile oil or other flavoring principle has been removed and which are clean, sound, and true to name.

2. *Allspice, pimento*, is the dried fruit of the *Pimenta pimenta* (L.) Karst., and contains not less than eight (8) per cent of quercitannic acid* ; not more than six (6) per cent of total ash, not more than five-tenths (0.5) per cent of ash insoluble in hydrochloric acid, and not more than twenty-five (25) per cent of crude fiber.

3. *Anise* is the fruit of the *Pimpinella anisum* L.

4. *Bay leaf* is the dried leaf of *Laurus nobilis* L.

5. *Capers* are the flower buds of *Capparis spinosa* L.

6. *Caraway* is the fruit of *Carum carvi* L.

Cayenne and Red Peppers.

7. *Red pepper* is the red, dried, ripe fruit of any species of *Capsicum*.

8. *Cayenne pepper, cayenne*, is the dried ripe fruit of *Capsicum frutescens* L., *Capsicum baccatum* L., or some other small-fruited species of *Capsicum*, and contains not less than fifteen (15) per cent of nonvolatile ether extract ; not more than six and five-tenths (6.5) per cent of total ash ; not more than five-tenths (0.5) per cent of

* Calculated from the total oxygen absorbed by the aqueous extract.

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ash insoluble in hydrochloric acid ; not more than one and five-tenths (1·5) per cent of starch, and not more than twenty-eight (28) per cent of crude fiber.

9. *Paprika* is the dried ripe fruit of *Capsicum annuum* L., or some other large-fruited species of *Capsicum*, excluding seeds and stems.

10. *Celery seed* is the dried fruit of *Apium graveolens* L.

11. *Cinnamon* is the dried bark of any species of the genus *Cinnamomum* from which the outer layers may or may not have been removed.

12. *True cinnamon* is the dried inner bark of *Cinnamomum zeylanicum* Breyne.

13. *Cassia* is the dried bark of various species of *Cinnamomum*, other than *Cinnamomum zeylanicum*, from which the outer layers may or may not have been removed.

14. *Cassia buds* are the dried immature fruit of species of *Cinnamomum*.

15. *Ground cinnamon, ground cassia*, is a powder consisting of cinnamon, cassia, or cassia buds, or a mixture of these spices and contains not more than six (6) per cent of total ash and not more than two (2) per cent of sand.

16. *Cloves* are the dried flower buds of *Caryophyllus aromaticus* L., which contain not more than five (5) per cent of clove stems ; not less than ten (10) per cent of volatile ether extract ; not less than twelve (12) per cent of quercitannic acid* ; not more than eight (8) per cent of total ash ; not more than five-tenths (0·5) per cent of ash insoluble in hydrochloric acid, and not more than ten (10) per cent of crude fiber.

17. *Coriander* is the dried fruit of *Coriandrum sativum* L.

18. *Cumin seed* is the fruit of *Cuminum cyminum* L.

19. *Dill seed* is the fruit of *Anethum graveolens* L.

20. *Fennel* is the fruit of *Foeniculum foeniculum* (L.) Karst.

21. *Ginger* is the washed and dried or decorticated and dried rhizome of *Zinziber zinziber* (L.) Karst., and contains not less than forty-two (42) per cent of starch ; not more than eight (8) per cent of crude fiber, not more than six (6) per cent of total ash, not more than one (1) per cent of lime, and not more than three (3) per cent of ash insoluble in hydrochloric acid.

22. *Limed ginger, bleached ginger*, is whole ginger coated with carbonate of lime and contains not more than ten (10) per cent of ash, not more than four (4) per cent of carbonate of lime, and conforms in other respects to the standard for ginger.

23. *Horse-radish* is not root of *Roripa armoracia* (L.) Hitchcock, either by itself or ground and mixed with vinegar.

24. *Mace* is the dried arillus of *Myristica fragrans* Houttuyn, and contains not less than twenty (20) nor more than thirty (30) per cent of nonvolatile ether extract, not more than three (3) per cent of total ash, and not more than five-tenths (0·5) per cent of ash insoluble in hydrochloric acid, and not more than ten (10) per cent of crude fiber.

25. *Macassar mace, Papua mace*, is the dried arillus of *Myristica argentea* Warb.

26. *Bombay mace* is the dried arillus of *Myristica malabarica* Lamarck.

27. *Marjoram* is the leaf, flower and branch of *Majorana majorana* (L.) Karst.

28. *Mustard seed* is the seed of *Sinapis alba* L. (white mustard), *Brassica nigra* (L.) Koch (black mustard), or *Brassica juncea* (L.) Cosson (black or brown mustard).

29. *Ground mustard* is a powder made from mustard seed, with or without the removal of the hulls and a portion of the fixed oil, and contains not more than two and five-tenths (2·5) per cent of starch and not more than eight (8) per cent of total ash.

30. *Prepared mustard, German mustard, French mustard, mustard paste*, is a paste composed of a mixture of ground mustard seed or mustard flour with salt, spices and vinegar, and, calculated free from water, fat and salt, contains not more than twenty-four (24) per cent of carbohydrates, calculated as starch, determined according to the official methods, not more than twelve (12) per cent of crude fiber nor less than thirty-five (35) per cent of protein, derived solely from the materials named.

* Calculated from the total oxygen absorbed by the aqueous extract.

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31. *Nutmeg* is the dried seed of the *Myristica fragrans* Houttuyn, deprived of its testa, with or without a thin coating of lime, and containing not less than twenty-five (25) per cent of nonvolatile ether extract, not more than five (5) per cent of total ash, not more than five-tenths (0.5) per cent of ash insoluble in hydrochloric acid, and not more than ten (10) per cent of crude fiber.

32. *Macassar nutmeg*, *Papua nutmeg*, *male nutmeg*, *long nutmeg*, is the dried seed of *Myristica argentea* Warb. deprived of its testa.

Pepper.

33. *Black pepper* is the dried immature berry of *Piper nigrum* L. and contains not less than six (6) per cent of nonvolatile ether extract, not less than twenty-five (25) per cent of starch, not more than seven (7) per cent of total ash, not more than two (2) per cent of ash insoluble in hydrochloric acid, and not more than fifteen (15) per cent of crude fiber. One hundred parts of the nonvolatile ether extract contain not less than three and one-quarter (3.25) parts of nitrogen. *Ground black pepper* is the product made by grinding the entire berry and contains the several parts of the berry in their normal proportions.

34. *Long pepper* is the dried fruit of *Piper longum* L.

35. *White pepper* is the dried mature berry of *Piper nigrum* L. from which the outer coating or the outer and inner coatings have been removed and contains not less than six (6) per cent of nonvolatile ether extract, not less than fifty (50) per cent of starch, not more than four (4) per cent of total ash, not more than five-tenths (0.5) per cent of ash insoluble in hydrochloric acid, and not more than five (5) per cent of crude fiber. One hundred parts of the nonvolatile ether extract contain not less than four (4) parts of nitrogen.

36. *Saffron* is the dried stigma of *Crocus sativus* L.

37. *Sage* is the leaf of *Salvia officinalis* L.

38. *Savory*, *summer savory*, is the leaf, blossom, and branch of *Satureja hortensis* L.

39. *Thyme* is the leaf and tip of blooming branches of *Thymus vulgaris* L.

B. Flavoring Extracts.

1. *A flavoring extract** is a solution in ethyl alcohol of proper strength of the sapid and odorous principles derived from an aromatic plant, or parts of the plant, with or without its coloring matter, and conforms in name to the plant used in its preparation.

2. *Almond extract* is the flavoring extract prepared from oil of bitter almonds, free from hydrocyanic acid, and contains not less than one (1) per cent by volume of oil of bitter almonds.

2*. *Oil of bitter almonds*, commercial, is the volatile oil obtained from the seed of the bitter almond (*Amygdalus communis* L.), the apricot (*Prunus armeniaca* L.), or the peach (*Amygdalus persica* L.).

3. *Anise extract* is the flavoring extract prepared from oil of anise, and contains not less than three (3) per cent by volume of oil of anise.

3*. *Oil of anise* is the volatile oil obtained from the anise seed.

4. *Celery seed extract* is the flavoring extract prepared from celery seed or the oil of celery seed, or both, and contains not less than three-tenths (0.3) per cent by volume of oil of celery seed.

4*. *Oil of celery seed* is the volatile oil obtained from celery seed.

5. *Cassia extract* is the flavoring extract prepared from oil of cassia and contains not less than two (2) per cent by volume of oil of cassia.

5*. *Oil of cassia* is the lead-free volatile oil obtained from the leaves or bark of

* The flavouring extracts herein described are intended solely for food purposes and are not to be confounded with similar preparations described in the Pharmacopœia for medicinal purposes.

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Cinnamomum cassia Bl., and contains not less than seventy-five (75) per cent by weight of cinnamic aldehyde.

6. *Cinnamon extract* is the flavoring extract prepared from oil of cinnamon, and contains not less than two (2) per cent by volume of oil of cinnamon.

6*. *Oil of cinnamon* is the lead-free volatile oil obtained from the bark of the Ceylon cinnamon (*Cinnamomum zeylanicum* Breyne), and contains not less than sixty-five (65) per cent by weight of cinnamic aldehyde and not more than ten (10) per cent by weight of eugenol.

7. *Clove extract* is the flavoring extract prepared from oil of cloves, and contains not less than two (2) per cent by volume of oil of cloves.

7*. *Oil of cloves* is the lead-free, volatile oil obtained from cloves.

8. *Ginger extract* is the flavoring extract prepared from ginger and contains in each one hundred (100) cubic centimeters, the alcohol-soluble matters from not less than twenty (20) grams of ginger.

9. *Lemon extract* is the flavoring extract prepared from oil of lemon, or from lemon peel, or both, and contains not less than five (5) per cent by volume of oil of lemon.

9*. *Oil of lemon* is the volatile oil obtained, by expression or alcoholic solution, from the fresh peel of the lemon (*Citrus limonum* L.), has an optical rotation (25° C.) of not less than +60° in a 100-millimeter tube, and contains not less than four (4) per cent by weight of citral.

10. *Terpeneless extract of lemon* is the flavoring extract prepared by shaking oil of lemon with dilute alcohol, or by dissolving terpeneless oil of lemon in dilute alcohol, and contains not less than two-tenths (0.2) per cent by weight of citral derived from oil of lemon.

10*. *Terpeneless oil of lemon* is oil of lemon from which all or nearly all of the terpenes have been removed.

11. *Nutmeg extract* is the flavoring extract prepared from oil of nutmeg, and contains not less than two (2) per cent by volume of oil of nutmeg.

11*. *Oil of nutmeg* is the volatile oil obtained from nutmegs.

12. *Orange extract* is the flavoring extract prepared from oil of orange, or from orange peel, or both, and contains not less than five (5) per cent by volume of oil of orange.

12*. *Oil of orange* is the volatile oil obtained, by expression or alcoholic solution, from the fresh peel of the orange (*Citrus aurantium* L.), and has an optical rotation (25° C.) of not less than +95° in a 100-millimeter tube.

13. *Terpeneless extract of orange* is the flavoring extract prepared by shaking oil of orange with dilute alcohol, or by dissolving terpeneless oil of orange in dilute alcohol, and corresponds in flavoring strength to orange extract.

13*. *Terpeneless oil of orange* is oil of orange from which all or nearly all of the terpenes have been removed.

14. *Peppermint extract* is the flavoring extract prepared from oil of peppermint, or from peppermint, or both, and contains not less than three (3) per cent by volume of oil of peppermint.

14*. *Peppermint* is the leaves and flowering tops of *Mentha piperita* L.

14†. *Oil of peppermint* is the volatile oil obtained from peppermint and contains not less than fifty (50) per cent by weight of menthol.

15. *Rose extract* is the flavoring extract prepared from otto of roses, with or without red rose petals, and contains not less than four-tenths (0.4) per cent by volume of otto of roses.

15*. *Otto of roses* is the volatile oil obtained from the petals of *Rosa damascena* Mill., *R. centifolia* L., or *R. moschata* Herrm.

16. *Savory extract* is the flavoring extract prepared from oil of savory, or from savory, or both, and contains not less than thirty-five hundredths (0.35) per cent by volume of oil of savory.

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16*. *Oil of savory* is the volatile oil obtained from savory.

17. *Spearmint extract* is the flavoring extract prepared from oil of spearmint, or from spearmint, or both, and contains not less than three (3) per cent by volume of oil of spearmint.

17*. *Spearmint* is the leaves and flowering tops of *Mentha spicata* L.

17†. *Oil of spearmint* is the volatile oil obtained from spearmint.

18. *Star anise extract* is the flavoring extract prepared from oil of star anise, and contains not less than three (3) per cent by volume of oil of star anise.

18*. *Oil of star anise* is the volatile oil distilled from the fruit of the star anise (*Illicium verum* Hook).

19. *Sweet basil extract* is the flavoring extract prepared from oil of sweet basil, or from sweet basil, or both, and contains not less than one-tenth (0.1) per cent by volume of oil of sweet basil.

19a. *Sweet basil, basil*, is the leaves and tops of *Ocimum basilicum* L.

19†. *Oil of sweet basil* is the volatile oil obtained from basil.

20. *Sweet margoram extract, marjoram extract*, is the flavoring extract prepared from the oil of marjoram, or from marjoram, or both, and contains not less than one (1) per cent by volume of oil of marjoram.

20*. *Oil of marjoram* is the volatile oil obtained from marjoram.

21. *Thyme extract* is the flavoring extract prepared from oil of thyme, or from thyme, or both, and contains not less than two-tenths (0.2) per cent by volume of oil of thyme.

21*. *Oil of thyme* is the volatile oil obtained from thyme.

22. *Tonka extract* is the flavoring extract prepared from tonka bean, with or without sugar or glycerin, and contains not less than one-tenth (0.1) per cent by weight of coumarin extracted from the tonka bean, together with a corresponding proportion of the other soluble matters thereof.

22*. *Tonka bean* is the seed of *Coumarouna odorata* Aublet (*Dipteryx odorata* (Aubl.) Willd.).

23. *Vanilla extract* is the flavoring extract prepared from vanilla bean, with or without sugar or glycerin, and contains in one hundred (100) cubic centimeters the soluble matters from not less than ten (10) grams of the vanilla bean.

23*. *Vanilla bean* is the dried, cured fruit of *Vanilla planifolia* Andrews.

24. *Wintergreen extract* is the flavoring extract prepared from oil of wintergreen, and contains not less than three (3) per cent by volume of oil of wintergreen.

24*. *Oil of wintergreen* is the volatile oil distilled from the leaves of the *Gaultheria procumbens* L.

C. Edible Vegetable Oils and Fats.

1. *Olive oil* is the oil obtained from the sound, mature fruit of the cultivated olive tree (*Olea europaea* L.) and subjected to the usual refining process; is free from rancidity; has a refractive index (25° C.) not less than one and forty-six hundred and sixty ten-thousandths (1.4660) and not exceeding one and forty-six hundred and eighty ten-thousandths (1.4680); and an iodine number not less than seventy-nine (79) and not exceeding ninety (90).

2. *Virgin olive oil* is olive oil obtained from the first pressing of carefully selected, hand-picked olives.

3. *Cotton-seed oil* is the oil obtained from the seeds of cotton plants (*Gossypium hirsutum* L., *G. barbadense* L., or *G. herbaceum* L.) and subjected to the usual refining processes; is free from rancidity; has a refractive index (25° C.) not less than one and forty-seven hundred ten-thousandths (1.4700) and not exceeding one and forty-seven hundred and twenty-five ten-thousandths (1.4725); and an iodine number not less than one hundred and four (104) and not exceeding one hundred and ten (110).

4. 'Winter-yellow' cotton-seed oil is expressed cotton-seed oil from which a portion of the stearin has been separated by chilling and pressure, and has an iodine number not less than one hundred and ten (110) and not exceeding one hundred and sixteen (116).

5. *Peanut oil, arachis oil, earthenut oil*, is the oil obtained from the peanut (*Arachis hypogaea* L.) and subjected to the usual refining process; is free from rancidity; has a refractive index (25° C.) not less than one and forty-six hundred and ninety ten-thousandths (1.4690) and not exceeding one and forty-seven hundred and seven ten-thousandths (1.4707); and an iodine number not less than eighty-seven (87) and not exceeding one hundred (100).

6. 'Cold-drawn' peanut oil* is peanut oil obtained by pressure without heating.

7. *Sesame oil, gingili oil, teel oil*, is the oil obtained from the seeds of the sesame plants (*Sesamum orientale* L. and *S. radiatum* Schum. and Thonn.) and subjected to the usual refining process; is free from rancidity; has a refractive index (25° C.) not less than one and forty-seven hundred and four ten-thousandths (1.4704) and not exceeding one and forty-seven hundred and seventeen ten-thousandths (1.4717); and an iodine number not less than one hundred and three (103) and not exceeding one hundred and twelve (112).

8. 'Cold-drawn' sesame oil* is sesame oil obtained by pressure without heating.

9. *Poppy-seed oil** is the oil obtained from the seed of the poppy (*Papaver somniferum* L.) subjected to the usual refining processes and free from rancidity.

10. *White poppy-seed oil, 'cold-drawn' poppy-seed oil*,* is poppy-seed oil of the first pressing without heating.

11. *Coconut oil** is the oil obtained from the kernels of the coconut (*Cocos nucifera* L.) and subjected to the usual refining processes and free from rancidity.

12. *Cochin oil* is coconut oil prepared in Cochin (Malabar).

13. *Ceylon oil* is coconut oil prepared in Ceylon.

14. *Copra oil* is coconut oil prepared from copra, the dried kernels of the coconut.

15. *Rape-seed oil, colza oil*,* is the oil obtained from the seeds of the rape plant (*Brassica napus* L.) and subjected to the usual refining processes and free from rancidity.

16. 'Cold-drawn' rape-seed oil* is rape-seed oil obtained by the first pressing without heating.

17. *Sunflower oil** is the oil obtained from the seeds of the sunflower (*Helianthus annuus* L.), and subjected to the usual refining processes and free from rancidity.

18. 'Cold-drawn' sunflower oil* is sunflower oil obtained by the first pressing without heating.

19. *Maize oil, corn oil*,* is the oil obtained from the germ of the maize (*Zea mays* L.) and subjected to the usual refining processes and free from rancidity.

20. *Cocoa butter, cacao butter*, is the fat obtained from roasted, sound cocoa beans, and subjected to the usual refining process; is free from rancidity; has a refractive index (40° C.) not less than one and forty-five hundred and sixty-six ten-thousandths (1.4566) and not exceeding one and forty-five hundred and ninety-eight ten-thousandths (1.4598), an iodine number not less than thirty-three (33) and not exceeding thirty-eight (38); and a melting point not lower than 30° C. nor higher than 35° C.

21. *Cotton-seed oil stearin* is the solid product made by chilling cotton-seed oil and separating the solid portion by filtration, with or without pressure, and having an iodine number not less than eighty-five (85) and not more than one hundred (100).

E. TEA, COFFEE AND COCOA PRODUCTS.

1. Tea.

1. *Tea* is the leaves and buds of different species of *Thea*, prepared by the usual trade processes of fermenting, drying, and firing; meets the provisions of the act of

*The fixing of limits for chemical and physical properties is reserved for future consideration.

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Congress, approved March 2, 1897, and the regulations made in conformity therewith (Treasury Department Circular 16, February 6, 1905); conforms in variety and place of production to the name it bears; and contains not less than four (4) nor more than seven (7) per cent of ash.

B. Coffee.

1. *Coffee* is the seed of *Coffea arabica* L. or *Coffea liberica* Bull., freed from all but a small portion of its spermoderm, and conforms in variety and place of production to the name it bears.

2. *Roasted coffee* is coffee which by the action of heat has become brown and developed its characteristic aroma, and contains not less than ten (10) per cent of fat and not less than three (3) per cent of ash.

C. Cocoa and Cocoa Products.

1. *Cocoa beans* are the seeds of the cacao tree, *Theobroma cacao* L.

2. *Cocoa nibs, cracked cocoa*, is the roasted, broken cocoa bean freed from its shell or husk.

3. *Chocolate, plain chocolate, bitter chocolate liquor, bitter chocolate coatings*, is the solid or plastic mass obtained by grinding cocoa nibs without the removal of fat or other constituents except the germ, and contains not more than three (3) per cent of ash insoluble in water, three and fifty hundredths (3.50) per cent of crude fiber, and nine (9) per cent of starch, and not less than forty-five (45) per cent of cocoa fat.

4. *Sweet chocolate, sweet chocolate coatings*, is chocolate mixed with sugar (sucrose), with or without the addition of cocoa butter, spices, or other flavoring materials, and contains in the sugar and fat-free residue no higher percentage of either ash, fiber, or starch than is found in the sugar and fat-free residue of chocolate.

5. *Cocoa, powdered cocoa*, is cocoa nibs, with or without the germ, deprived of a portion of its fat and finely pulverized, and contains percentages of ash, crude fiber, and starch corresponding to those in chocolate after correction for fat removed.

6. *Sweet cocoa, sweetened cocoa*, is cocoa mixed with sugar (sucrose), and contains not more than sixty (60) per cent of sugar (sucrose), and in the sugar and fat-free residue no higher percentage of either ash, crude fiber, or starch than is found in the sugar and fat-free residue of chocolate.

F.—BEVERAGES.

A. FRUIT JUICES—FRESH, SWEET AND FERMENTED.

1. *Fresh and 2. Sweet.* ..

(Schedules in Preparation.)

3. *Fermented Fruit Juices.*

1. *Wine* is the product made by the normal alcoholic fermentation of the juice of sound, ripe grapes, and the usual cellar treatment,* and contains not less than seven (7) nor more than sixteen (16) per cent of alcohol, by volume, and, in one hundred (100) cubic centimeters (20° C.), not more than one-tenth (0.1) gram of sodium chlorid nor more than two-tenths (0.2) gram of potassium sulphate; and for red wine nor more than fourteen hundredths (0.14) gram, and for white wine not more than twelve hundredths (0.12) gram of volatile acids produced by fermentation and calculated as acetic acid. *Red wine* is wine containing the red colouring matter of the skins of grapes. *White wine* is wine made from white grapes or the expressed fresh juice of other grapes.

*The subject of sulphurous acid in wine is reserved for consideration in connection with the schedule, 'Preservatives and Coloring Matters.'

2. *Dry wine* is wine in which the fermentation of the sugars is practically complete and which contains, in one hundred (100) cubic centimeters (20° C.), less than one (1) gram of sugars and for dry red wine not less than sixteen hundredths (0·16) gram of grape ash and not less than one and six-tenths (1·6) grams of sugar-free grape solids, and for dry white wine not less than thirteen hundredths (0·13) gram of grape ash and not less than one and four-tenths (1·4) grams of sugar-free grape solids.

3. *Fortified dry wine* is dry wine to which brandy has been added but which conforms in all other particulars to the standard of dry wine.

4. *Sweet wine* is wine in which the alcoholic fermentation has been arrested, and which contains, in one hundred (100) cubic centimeters (20° C.), not less than one (1) gram of sugars, and for sweet red wine not less than sixteen hundredths (0·16) gram of grape ash, and for sweet white wine not less than thirteen hundredths (0·13) gram of grape ash.

5. *Fortified sweet wine* is sweet wine to which wine spirits have been added. By Act of Congress, 'sweet wine' used for making fortified sweet wine and 'wine spirits' used for such fortification are defined as follows : (Sec. 43, Act of October 1, 1890, 26 Stat., 567, as amended by section 68, Act of August 27, 1894, 28 Stat., 509, and further amended by Act of Congress approved June 7, 1906) : 'That the wine spirits mentioned in section 42 of this Act is the product resulting from the distillation of fermented grape juice to which water may have been added prior to, during, or after fermentation, for the sole purpose of facilitating the fermentation and economical distillation thereof, and shall be held to include the products from grapes or their residues, commonly known as grape brandy; and the pure sweet wine, which may be fortified free of tax, as provided in said section, is fermented grape juice only, and shall contain no other substance whatever introduced before, at the time of, or after fermentation, except as herein expressly provided; and such sweet wine shall contain not less than four per centum of saccharine matter, which saccharine strength may be determined by testing with Balling's saccharometer or must scale, such sweet wine, after the evaporation of the spirits contained therein, and restoring the sample tested to original volume by addition of water : *Provided*, That the addition of pure boiled or condensed grape must or pure crystallized cane or beet sugar or pure anhydrous sugar to the pure grape juice aforesaid, or the fermented product of such grape juice prior to the fortification provided by this Act for the sole purpose of perfecting sweet wine according to commercial standard, or the addition of water in such quantities only as may be necessary in the mechanical operation of grape conveyers, crushers, and pipes leading to fermenting tanks, shall not be excluded by the definition of pure sweet wine aforesaid : *Provided, however*, That the cane or beet sugar, or pure anhydrous sugar, or water, so used shall not in either case be in excess of ten (10) per centum of the weight of the wine to be fortified under this Act : *And provided further*, That the addition of water herein authorized shall be under such regulations and limitations as the Commissioner of Internal Revenue, with the approval of the Secretary of the Treasury, may from time to time prescribe ; but in no case shall such wines to which water has been added be eligible for fortification under the provisions of this Act where the same, after fermentation and before fortification, have an alcoholic strength of less than five per centum of their volume.'

6. *Sparkling wine* is wine in which the after part of the fermentation is completed in the bottle, the sediment being disgorged and its place supplied by wine or sugar liquor, and which contains, in one hundred (100) cubic centimeters (20° C.), not less than twelve hundredths (0·12) gram of grape ash.

7. *Modified wine, ameliorated wine, corrected wine*, is the product made by the alcoholic fermentation, with the usual cellar treatment, of a mixture of the juice of sound, ripe grapes with sugar (sucrose), or a sirup containing not less than sixty-five (65) per cent of sugar (sucrose), and in quantity not more than enough to raise the alcoholic strength after fermentation, to eleven (11) per cent by volume.

8. *Raisin wine* is the product made by the alcoholic fermentation of an infusion of

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dried or evaporated grapes, or of a mixture of such infusion or of raisins with grape juice.

B. Mead, Root Beer, &c.

(Schedule in Preparation.)

C. Malt Liquors.

(Schedule in Preparation.)

D. Spirituous Liquors.

(Schedule in Preparation.)

E. Carbonated Water, &c.

(Schedule in Preparation.)

G.—VINEGAR.

1. *Vinegar, cider vinegar, apple vinegar*, is the product made by the alcoholic and subsequent acetous fermentations of the juice of apples, is laevo-rotatory, and contains not less than four (4) grams of acetic acid, not less than one and six-tenths (1·6) grams of apple solids, of which not more than fifty (50) per cent are reducing sugars, and not less than twenty-five hundredths (0·25) gram of apple ash in one hundred (100) cubic centimeters (20° C.); and the water-soluble ash from one hundred (100) cubic centimeters (20° C.) of the vinegar contains not less than ten (10) milligrams of phosphoric acid (P_2O_5), and requires not less than thirty (30) cubic centimeters of decinormal acid to neutralize its alkalinity.

2. *Wine vinegar, grape vinegar*, is the product made by the alcoholic and subsequent acetous fermentations of the juice of grapes and contains, in one hundred (100) cubic centimeters (20° C.), not less than four (4) grams of acetic acid, not less than one (1·0) gram of grape solids, and not less than thirteen hundredths (0·13) gram of grape ash.

3. *Malt vinegar* is the product made by the alcoholic and subsequent acetous fermentations, without distillation, of an infusion of barley malt or cereals whose starch has been converted by malt, is dextro-rotatory, and contains, in one hundred (100) cubic centimeters (20° C.), not less than four (4) grams of acetic acid, not less than two (2) grams of solids, and not less than two-tenths (0·2) gram of ash; and the water-soluble ash from one hundred (100) cubic centimeters (20° C.) of the vinegar contains not less than nine (9) milligrams of phosphoric acid (P_2O_5), and requires not less than four (4) cubic centimeters of decinormal acid to neutralize its alkalinity.

4. *Sugar vinegar* is the product made by the alcoholic and subsequent acetous fermentations of solutions of sugar, sirup, molasses, or refiners' sirup, and contains, in one hundred (100) cubic centimeters (20° C.), not less than four (4) grams of acetic acid.

5. *Glucose vinegar* is the product made by the alcoholic and subsequent acetous fermentations of solutions of starch sugar or glucose, is dextro-rotatory, and contains, in one hundred (100) cubic centimeters (20° C.), not less than four (4) grams of acetic acid.

6. *Spirit vinegar, distilled vinegar, grain vinegar*, is the product made by the acetous fermentation of dilute distilled alcohol, and contains, in one hundred (100) cubic centimeters (20° C.), not less than four (4) grams of acetic acid.

III. SALT.

1. *Table salt, dairy salt*, is fine-grained crystalline salt containing on a water-free basis, not more than one and four-tenths (1·4) per cent of calcium sulphate ($CaSO_4$), nor more than five-tenths (0·5) per cent of calcium and magnesium chlorids ($CaCl_2$ and $MgCl_2$), nor more than one-tenth (0·1) per cent of matters insoluble in water.

IV. PRESERVATIVES AND COLOURING MATTERS.

(Schedules in Preparation.)

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66 BEDFORD ROW,
HALIFAX, N.S., July 31, 1906.

The Deputy Minister of Inland Revenue,
Ottawa, Ont.

SIR.—I have the honour to submit my annual report on the samples of food, &c., received for analysis during the year ending June 30, 1906.

	Genuine.	Doubtful.	Adulterated.	Total.
Cream of tartar..	33		7	40
Vinegar ..	32		8	40
Milk ..	59	21	2	82
Fertilizers ..	19	3	5	27
	143	24	22	189

I have the honour to be, sir,
Your obedient servant,
(Sgd.) MAYNARD BOWMAN.

112 ST. FRANÇOIS XAVIER ST.,
MONTREAL, July 6, 1906.

DEAR SIR,—I have the honour to submit my report of analyses made during the fiscal year ending June 30, 1906.
I have analysed 247 samples, namely :—

- 40 samples of vinegar.
- 30 samples of cream of tartar.
- 133 samples of milk, cream, buttermilk.
- 44 samples of fertilizer.

The results of my analyses are stated in the following tabular form :—

	Genuine.	Doubtful.	Adulterated.	Total.
Vinegar ..	28	11	1	40
Greain of tartar.	24	2	4	30
Milk, cream and buttermilk.....	109	11	13	133
Fertilizers.	33	4	7	44
	194	28	25	247

The 7 samples of fertilizer classed as doubtful were so reported because they were not registered.

I have the honour to be, sir,
Your obedient servant,
(Sgd.) J. T. DONALD.

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OFFICE OF THE PUBLIC ANALYST,
OTTAWA, July 4, 1906.

The Commissioner of Inland Revenue,
Ottawa.

SIR,—I have the honour to submit to you my report of samples submitted to me for analysis during the fiscal year ending June 30, 1906.

The following is a tabular statement of the character, the number and the quality of the samples analysed :—

	Below Standard.	Genuine.	Adul- terated.	Total
Vinegar...	26	14		40
Cream of tartar.....		17	13	30
	26	31	13	70

Most of the samples of vinegar were found deficient in acetic acid. None, however, were found contaminated with heavy metals. Thirteen samples of cream of tartar were found containing alum and were in consequence declared adulterated.

I have the honour to be, sir,
Your obedient servant,
(Sgd.) F. X. VALADE, M.D.,
Public Analyst.

FACULTY OF APPLIED SCIENCE AND ENGINEERING,
UNIVERSITY OF TORONTO, ONT.
SCHOOL OF PRACTICAL SCIENCE,
TORONTO, August 3, 1906.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue,
Ottawa.

SIR,—I have the honour to make the following report on the samples analysed in my laboratory during the past year.

Since June 30, 1905, 179 samples of food and agricultural fertilizers have been examined with the results shown in the subjoined tabular statement.

	Genuine.	Adul- terated.	Doubtful.	Total.
Vinegar.....	31	2	8	41
Raspberry jam.....	0	2	0	2
Cream of tartar.....	24	6	0	30
Milk.....	30	15	31	76
Cream.....	1	0	0	1
Fertilizers	9	5	15	29
	95	30	54	179

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In this table those samples of milk in which any constituent fell below the average, and those fertilizers which were not registered according to the Act were reported 'doubtful.'

I have the honour to be, sir,
Your obedient servant,
(Sgd.) W. H. ELLIS.

PUBLIC ANALYST'S OFFICE,
VICTORIA, B.C., July 20, 1906.
The Minister of Inland Revenue,
Ottawa.

SIR,—I beg to submit report for year ending June 30, 1906.

	Genuine.	Doubtful.	Adul- terated.	Total.
Vinegar	30	8	1	39
Whole milk	39	6	14	59
Cream	4	7	0	11
Buttermilk	2	0	0	2
Fertilizers	5	10	0	15
Cream of tartar	30	0	10	40
	110	31	25	166

I have the honour to be, sir,
Your obedient servant,
(Sgd.) C. H. FAGAN.

APPENDIX A.**BULLETIN No. 106—GROUND PEPPER.**

OTTAWA, August 21, 1905.

W. J. GERALD, Esq.,

Deputy Minister of Inland Revenue Department.

SIR,—I have the honour herewith to present a report upon Black and White Pepper. The samples just examined, were collected in accordance with your instructions of the 16th June, and the work upon them has been performed in this laboratory.

It is public knowledge that pepper is an article which is very grossly adulterated; and an effort has been made, in the present instance, to obtain reliable information as to the extent of this adulteration; as well as to ascertain whether it is universal throughout Canada, or more or less localized.

Pepper has been made the subject of inspection pretty continuously since 1877, when first the adulteration Act became operative in Canada. The following synoptical table gives a succinct account of what has been done in this regard. (See next page.)

It will be noted that the number of samples heretofore examined, in any year, has been too small to permit of any trustworthy conclusions of a general nature, being based upon it. At a very conservative estimate there are from 4,000,000 to 5,000,000 retail sales of pepper in Canada annually. It is evident that the number of samples examined should bear some reasonable proportion to this number, if reliable conclusions are to be drawn from their analysis. While it cannot be claimed that the total number of samples (290), whose analysis is now reported, is sufficiently large to fulfil this condition, it certainly approaches it in a much higher degree than any former inspection of pepper, being considerably more than double the number examined in any preceding year.

The following tables show (see page 34), in condensed form the result of the present inspection and of inspection for the whole period 1877 to 1905. It will be seen that the highest percentage of adulteration occurs in and about Montreal, and these districts give the highest percentage of adulteration for the whole period 1877 to 1905. On account of the comparatively small number of samples inspected, during this period, in certain districts, too great importance must not be attached to these averages.

INSPECTION OF PEPPER, 1876 TO 1905¹.

Year.	District of Nova Scotia.		District of Quebec.		District of Montreal.		District of Toronto.		District of New Brunswick.		District of London.		District of Manitoba.	
	Exam-ined.	Adul-terated.	Exam-ined.	Adul-terated.	Exam-ined.	Adul-terated.	Exam-ined.	Adul-terated.	Exam-ined.	Adul-terated.	Exam-ined.	Adul-terated.	Exam-ined.	Adul-terated.
1876 & 1877 ² .	6	4	6	5	16	16	8	5						
1878.....	6	5	6	3	16	15	12	5						
1879.....	8	4	11	5	15	9	10	4						
1880.....	9	2	8	1	8	1	9	5	9	9				
1881.....	7	3	7	0	11	11	11	9	9	7				
1882.....	4	1	5	4	12	10	10	5	12	10				
1883.....	8	3	2	1	11	10	4	2	5	5	2	0		
1884.....	1	1	2	0	8	7	3	1	6	4	4	4		
1885.....	12	3	2	0	18	10	23	15	6	5	5	4	2	2
1886 ⁴	4	1	5	4	4	3	4	4	4	2	4	2		
1887.....	10	6	8	8	10	7	10	6	8	5			8	4
1890.....			25	11	38	26	10	1						
1891.....			23	10	30	21								
1894.....			10	3	10	8	10	1	8	5	8	2	8	2
1896.....	15	4	15	6	17	10	15	1	13	2	13	1	12	2
1899.....							10	2						
1900.....	10	1	10	4			10	0			9	5	10	0
1904 ⁵	10	1	18	12	19	19	17	13	7	3	11	6	10	1
1905 ⁶	7	0			12	8	12	4	7	3	10	3	7	4
Sum.	116	39	163	77	255	191	188	83	94	60	66	27	57	15
Present in- spection...	24	1	23	17	24	12	24	6	24	10	24	6	25	11
Total for per- iod of 29 years	140	40	186	94	279	203	212	89	118	70	90	33	82	26

¹In some of the earlier years a few samples of cayenne (red pepper) are included in these numbers.
²The first year in which the Adulteration Act was enforced.
³The first Chief Analyst (Mr. Evans) appointed.
⁴Mr. Macfarlane appointed Chief Analyst
⁵Bulletin No. 20. ⁶Bulletin No. 95. ⁷Bulletin No. 103.

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INSPECTION OF PEPPER, 1876 TO 1905—*Concluded*

Year.	District of Kingston.		District of British Columbia.		District of Prince Edward Island.		District of Calgary.		District of St. Hyacinthe.		Canada.	
	Exam-ined.	Adul-terated.	Exam-ined.	Adul-terated.	Exam-ined.	Adul-terated.	Exam-ined.	Adul-terated.	Exam-ined.	Adul-terated.	Exam-ined.	Adul-terated.
1876 & 1877 ²											36	30
1878.....											40	28
1879.....											44	22
1880.....											42	18
1881.....											45	30
1882.....											43	30
1883.....											32	21
1884.....											24	17
1885 ³											68	39
1886 ⁴	4	4									29	20
1888.....	8	7									62	43
1890 ⁵											73	38
1891.....											53	31
1894.....	8	8									62	29
1896.....	13	5									113	31
1899.....											10	2
1900.....	9	4	8	1							66	15
1904 ⁶	14	4	12	6	6	1	6	6			130	72
1905 ⁷	10	4	8	4	2	0	1	1	10	10	86	41
Sum.....	66	36	28	11	8	1	7	7	10	10	1,058	557
Present inspection.....	24	11	24	9	26	7	24	8	24	18	290	117
Total for period of 29 years.....	90	77	60	20	34	8	31	15	34	28	1,348	674

¹ In some of the earlier years a few samples of cayenne (red pepper) are included in these numbers.
² The first year in which the Adulteration Act was enforced.
³ The first Chief Analyst (Mr. Evans) appointed.
⁴ Mr. Macfarlane appointed Chief Analyst.
⁵ Bulletin No. 20. ⁶ Bulletin No. 95. ⁷ Bulletin No. 103.

PRESENT COLLECTION.

District.	Number inspected	Genuine.	Adulterated	Doubtful.	Percentage Adulteration.
Nova Scotia.....	24	23	1	0	4
New Brunswick.....	24	14	10	0	42
Prince Edward Island.....	26	19	7	0	27
Quebec.....	23	6	17	0	74
St. Hyacinthe.....	24	5	18	1	75
Montreal.....	24	12	12	0	50
Kingston.....	24	12	11	1	46
Toronto.....	24	18	6	0	25
London.....	24	18	6	0	25
Manitoba.....	25	14	11	0	44
Calgary.....	24	16	8	0	33
British Columbia.....	24	14	9	1	37

FROM PERIOD 1877 TO 1905.

District.	Examined.	Adulterated.	Percentage of Adulteration.
Nova Scotia.....	140	40	28
New Brunswick.....	118	70	60
Prince Edward Island	34	8	24
Quebec.....	186	94	51
St. Hyacinthe.....	34	28	82
Montreal.....	279	203	72
Kingston.....	90	77	85
Toronto.....	212	89	42
London.....	90	33	36
Manitoba.....	82	26	31
Calgary.....	31	15	50
British Columbia....	60	20	33

Most of the samples inspected on the present occasion were purchased from bulk stock; but 20 samples were bought in packages, as put up by the manufacturer, and 30 samples, from manufacturers direct. Of samples so obtained, 25 are genuine, 3 of doubtful purity (the quantity of adulterant being too small to justify the conclusion that it has been intentionally added), and 2 adulterated.

The usual adulterant of white pepper is flour or starch of some kind. In black pepper, not only flour but ground shells and mineral matters (dirt) are found. It may here be explained that white pepper only differs from black, in that the outer coat (pericarp) of the berry has been removed before grinding. This pericarp invariably contains more or less earthy matter (soil) adherent to it, and this causes the relatively high percentage of ash in black peppers. The question of a maximum limit for ash in

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black pepper has often been discussed. In Bull. No. 20 (Dec. 1890), I have brought together certain data, partly collected and partly original, bearing upon this subject; and (page 14) have proposed $7\frac{1}{2}\%$ of total ash, as an outside limit. The United States Department of Agriculture has recently (Nov. 20, 1903) promulgated standards of purity for certain food products, and has adopted this number, $7\frac{1}{2}\%$ total ash as a legal standard for pepper. The committee having charge of this subject of food standards comprises the best known food chemists of the United States, and one Canadian chemist. I have no doubt that this standard for pepper ash will commend itself to you, and I have based my conclusions as to purity, so far as ash is concerned, upon this standard. The very high ash found for some samples of black pepper leads to the inference that the outer husks, separated in the preparation of the berries for grinding as white pepper, have been added to black pepper. It is difficult otherwise to account for such high ash as 10 to 15% found in at least 12 samples analyzed.

While it cannot be charged that any of the substances found as adulterants of pepper, are actively harmful to health, they are certainly "mixed with it so as to reduce or lower or injuriously affect its quality or strength" and are "inferior or cheaper substances, substituted in part for the article." On these grounds their presence constitutes adulteration.

In conclusion I have to express my thanks to Mr. A. Lemoine and Miss Wright, who did most of the analytical work on these samples; and to recommend that this report be published as Bulletin No. 106.

I have the honor to be, sir,

Your obedient servant,

A. MCGILL,

Acting Chief Analyst.

TABLE I.—BLACK PEPPER—JULY, 1905.

Date of Collection	Collector's Number.	Serial Number.	Name and Address of Vendor.	Cost per lb.	Inspector's Report.
			<i>District of Nova Scotia—R. J. Waugh, Inspector.</i>	\$ cts.	
July 13..	27001	1	DeWolfe & Lamont, Kentville.....	0 26	
" 13..	27004	2	Wm. Smith, Kentville.....	0 32	
" 13..	27008	3	B. H. Dodge ".....	0 40	
" 14..	27011	4	W. T. Stephens, Wolfville.....	0 30	
" 14..	27020	5	E. Shaw, Windsor.....	0 40	
" 19..	27031	6	J. B. Holden, Lunenburg.....	0 36	
" 19..	27034	7	B. G. Herman ".....	0 24	
" 19..	27035	8	J. S. Berringer ".....	0 36	
" 19..	27036	9	A. Cossmann, Newtown, Lunenburg.	0 24	
" 25..	27047	10	Hattie & Mylins, Halifax.....	0 28	Bought from manufacturer.
" 25..	27050	11	Brown & Webb ".....	0 24	" "
" 26..	27053	12	J. P. Mott & Co. ".....		" "
			<i>District of New Brunswick—J. C. Ferguson, Inspector.</i>		
June 24..	24013	1	Maritime Spice & Coffee Co., Ltd ...	0 28	Bought from manufacturer.
" 29..	24024	2	James W. Brogan, St. John.....	0 30	
" 29..	24025	3	J. E. Bryant, Fairville, St. John Co.	0 30	
July 3..	24031	4	Harry G. McBeath, St. John.....	0 30	
" 4..	24033	5	James Collins, St. John.....	0 30	
" 4..	24035	6	J. A. Lipsett, St. John.....	0 30	Did not sell this pepper as pure.
" 7..	24041	7	Charles Francis & Co., St. John...	0 30	
.....	24072	8	N. W. Eveleigh & Co., Sussex.....	0 24	Not sold as pure.
.....	24076	9	Blakenay Bros., Petitcodiac.....	0 40	Original package.
.....	24089	10	Adam Burns & Co., Bathurst.....	0 40	"
.....	24093	11	M. Bannon, Newcastle.....	0 40	"
.....	24097	12	V. A. Danville, Chatham..	0 30	
			<i>District of Prince Edward Island— T. Moore, Inspector.</i>		
June 27..	24436	1	Sterns & Son, Souris.....	0 28	
" 27..	24439	2	Matthew & McLean, Souris.....	0 26	
" 28..	24446	3	John McKenna, Charlottetown.	0 28	
" 28..	24449	4	R. F. Maddigan ".....	0 28	
" 28..	24454	5	Sanderson & Co. ".....	0 28	
" 28..	24458	6	Jenkins & Son ".....	0 32	
July 5..	24467	7	Dyer, Woodman & Hunter, Alberton	0 24	
" 5..	24469	8	J. H. Myrick, Alberton.....	0 30	
" 6..	24480	9	Jardine & Co., Ltd., Summerside....	0 30	
" 6..	24482	10	McGougan & Wright ".....	0 30	
" 6..	24487	11	John Knight, Georgetown.....	0 32	
" 6..	24489	12	A. A. McDonald Bros., Georgetown.	0 32	
" 8..	24490	13	Gordon Douglas, Mount Stewart.....	0 32	
			<i>District of Quebec—C. E. Roy, Inspector.</i>		
July 24..	27520	1	J. A. Pelletier, Chicoutimi.....	0 30	
" 24..	27521	2	Bouchard & Michaud, Chicoutimi....	0 24	
" 25..	27522	3	Alf. Lalancette, Roberval.....	0 30	
" 25..	27523	4	O, Jarnel & Cie ".....	0 30	
" 26..	27524	5	H. McReady, New Liverpool.....	0 24	
" 19..	27513	6	Ed. Turgeon, Quebec.	0 30	
" 20..	27514	7	J. E. Lachance, Quebec.....	0 20	
" 21..	27517	8	Frs. Lavallée, St. Jean, Port Joli....	0 36	
" 21..	27518	9	L. A. Paquette, St. Anne de la Poca- tière.	0 20	
" 22..	27519	10	V. Devost, Rivière du Loup.....	0 36	
" 21..	27515	11	Nap. Boulanger, Montmagny.....	0 26	
" 21..	27516	12	J. F. Pouliot, L'Islet.....	0 20	

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TABLE I.—BLACK PEPPER—JULY, 1905—*Continued.*

Date of Collection	Collector's Number.	Serial Number.	Name and Address of Vendor.	Cost per lb.	Inspector's Report.
<i>District of St. Hyacinthe—J. C. Rouleau, Inspector.</i>				\$ cts.	
June 24..	24571	1	Alfred Lavallée, Berthierville.	0 20	
" 24..	24572	2	W. Laphune, Berthierville	0 40	
" 26..	24573	3	P. P. Lanoie, St. Aimé.....	0 20	
" 26..	24574	4	P. Letendre, Yamaska.....	0 20	
" 27..	24575	5	P. Charron, Longueuil.....	0 20	
" 27..	24576	6	Michel Viger "	0 30	
" 28..	24577	7	A. Leost, St. Hyacinthe.....	0 20	
" 28..	24578	8	J. W. Turcotte, Drummondville. .	0 26	
" 22..	24567	9	Alf. Paradis, Brompton Falls.....	0 26	
" 22..	24568	10	L. O. Pepin & Fils, Arthabaskaville.	0 20	
" 23..	24569	11	H. Rivard & Cie, Three Rivers	0 30	
" 23..	24570	12	L. Bumelle & Frères "	0 20	
<i>District of Montreal—J. J. Costigan, Inspector.</i>					
June 21..	26632	1	J. B. Vinet, 834 Craig St., East.....	0 20	
" 21..	26633	2	J. O. Bessette, 1662 St. Catherine St.	0 40	
" 21..	26634	3	P. J. Ryan, 66 Centre St.	0 30	
" 21..	26635	4	J. O. Boudrias, 358 Centre St	0 24	
" 21..	26636	5	J. B. Deschamp, 371 Centre St.....	0 30	
" 27..	26631	6	Theo. Lefebvre & Co., Gosford St ...	0 20	
" 26..	26637	7	R. Herron & Co., St. Paul St.....	0 36	
" 26..	26638	8	S. H. Ewing & Sons, King St.....	0 40	
" 27..	26639	9	J. A. Simard, St. Paul St.....	0 25	
" 27..	26640	10	E. D. Marceau "	0 16	
" 27..	26641	11	J. V. Boudriau, Notre Dame St	0 20	
" 27..	26642	12	J. D. Boileau, Bonsecour St	0 26	
<i>District of Kingston—J. Hogan and A. E. Sanderson, Inspectors.</i>					
June 20 ..	25424	1	M. E. Barry, 115 Queen St., Ottawa.	0 40	
" 20..	25425	2	J. E. McAdam, 548 Wellington St., Ottawa.	0 26	
" 20..	25426	3	F. A. Scott, 167 Rideau St., Ottawa.	0 34	
" 20..	25427	4	John Bambrick, 50 George St., Ottawa.	0 26	
" 22	25428	5	P. A. Haffner, 147 Montreal St., Kingston.	0 30	
" 22..	25429	6	James McCuller, 149 Montreal St., Kingston.	0 26	
" 22..	25430	7	W. E. Hopkinson & Bros., 37 Brock St., Kingston.	0 26	
" 22..	25431	8	L. W. Murphy, Princess St., Kingston	0 26	
" 22..	25433	9	John Gilbert, Barrie St. "	0 26	
" 23..	25432	10	Geo. Boyle, Front St., Belleville.....	0 30	
" 23..	25434	11	John Panter & Son, Front St., Belleville.	0 26	
" 23..	25435	12	O. S. Hicks, Front St., Belleville ...	0 26	
<i>District of Toronto—</i>					
July 18..	24813	1	Chas. Burch, 368 Spadina Ave., Toronto.	0 40	
" 18..	24814	2	R. N. Ferguson, 272 College St., Toronto.	0 30	
" 18..	24815	3	W. J. Sykes, 344 College St., Toronto	0 26	
" 19..	24816	4	Bradley & Sons, St. Paul St., St. Catherines.	0 26	
" 19..	24817	5	F. A. Wilson, Queen St., St. Catharines.	0 26	

TABLE I.—BLACK PEPPER—JULY, 1905—Continued.

Date of Collection	Collector's Number.	Serial Number.	Name and Address of Vendor.	Cost per lb.	Inspector's Report.
District of Toronto—Concluded.				\$ cts.	
July 20..	24818	6	F. F. Dalley Co., Hughson St., Hamilton.	0 19	Bought from manufacturer.
" 20..	24819	7	Hamilton Coffee and Spice Co.....	0 18	" "
" 21..	24820	8	Todhunter & Mitchell, Front St., Toronto.	0 20	" "
" 21..	24821	9	J. M. Lowes & Co., 109 Front St., Toronto.	0 18	" "
" 21..	24822	10	Dalton Bros., 191 Front St., Toronto.	0 16	" "
" 21..	24823	11	Jno. W. Peter, 245 King E. "	0 30	" "
" 21..	24824	12	Mrs. Connelly, 237 " "	0 26	" "
District of London—T. Kidd, Inspector.					
June 21..	22295	1	John Beattie & Bro., Seaforth. . . .	0 30	
" 22..	22298	2	Charles A. Warin, Goderich.....	0 30	
" 23..	22306	3	Michael Klinghamer, Dublin.....	0 25	
" 22..	22304	4	W. F. Moreutz, Mitchell....	0 25	
" 26..	22311	5	R. G. Smith, St. Mary's.	0 30	
" 27..	22317	6	J. C. Treblecock, Dundas St., London	0 30	
" 27..	22319	7	P. J. Sherry, Ingersol.....	0 50	
" 28..	22328	8	F. Walker, Norwich	0 28	
" 28..	22330	9	W. F. Cockshut, Brantford.....	0 30	
July 6..	22335	10	J. A. Good & Co., Berlin....	0 24	
" 6..	22339	11	A. K. Roesch, Waterloo.....	0 28	
" 14..	22369	12	C. M. Pott, Fergus	0 40	
District of Winnipeg—W. M. Conklin, Inspector.					
July 18..	23993	1	Kent & Brown, Moose Jaw.....	0 40	
" 18..	23994	2	McKenzie Bros. "	0 40	
" 24..	25504	3	T. E. Williams, Winnipeg.....	0 30	
" 24..	25505	4	J. B. Gardiner "	0 40	
" 24..	25506	5	John Dyke "	0 40	
" 24..	25507	6	Archdekin Bros. "	0 30	
" 24..	25508	7	D. W. McLean "	0 30	
" 19..	23996	8	Multer & Lynch, Brandon.....	0 30	
" 20..	23999	9	Geo. Kennedy, Carberry.....	0 40	
" 20..	24000	10	T. R. Brough "	0 40	
Aug. 2..	25521	11	The Farmer's Trading Co., Gretina..	0 40	
" 4..	25527	12	J. R. Bullock, Selkirk.. ..	0 40	
" 8..	25532	13	B. Tobias & Co., Morden.....	0 40	
District of Calgary—W. Fletcher, Inspector.					
July 21..	21805	1	Canada Grocers Sta., Calgary.. ..	0 30	
" 21..	21808	2	Codville Smith Co. Sta., Calgary...	0 30	Bought from manufacturer.
" 22..	21813	3	A. S. Cameron, Calgary	0 30	
" 22..	21818	4	Hudson Bay Co. "	0 40	
" 25..	21820	5	Star Trading Co., Wetaskewine	0 30	
" 27..	21835	6	Hudson Bay Co., Edmonton.....	0 30	
" 27..	21840	7	Revillon Bros. "	0 30	
" 27..	21845	8	McDougall & Secord "	0 30	
" 27..	21850	9	Williamson Bros. "	0 30	
" 28..	21861	10	Groat & Elliott, Strathcona.	0 30	
" 28..	21863	11	T. P. Malone "	0 30	
" 28..	21868	12	Douglas Bros. "	0 30	

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TABLE I.—BLACK PEPPER—JULY, 1905—*Concluded.*

Date of Collection	Collector's Number.	Serial Number.	Name and Address of Vendor.	Cost per lb.	Inspector's Report.
			<i>District of British Columbia—E. B. Parkinson, Inspector.</i>	\$ cts.	
June 26..	26904	1	A. Desbrisay, Vancouver.....	0 40	
" 26..	26907	2	J. Deal "	0 40	
" 27..	26911	3	J. May "	0 40	
" 27..	26917	4	S. F. McCready "	0 40	
" 28..	26923	5	S. T. Wallace "	0 40	
" 28..	26928	6	La Belle & Co. "	0 40	
July 4..	26940	7	A. R. Johnston, Nanaimo.....	0 45	
" 6..	26948	8	R. Mowat, Victoria	0 40	
" 6..	26949	9	Victoria Co-operative Ass., Ltd., Victoria.	0 40	
" 6..	26955	10	Fred. Cann, Victoria, B.C. ...	0 50	
" 7..	26965	11	A. J. Morley "	0 70	Bought from manufacturer.
" 7..	26968	12	Stemler & Collison, Vancouver, B.C.	0 40	

TABLE II.—WHITE PEPPER—JULY, 1905.

Date of Collection	Collector's Number.	Serial Number.	Name and Address of Vendor.	Cost per lb.	Inspector's Report.
			<i>District of Nova Scotia—R. J. Waugh, Inspector.</i>	\$ cts.	
July 14..	27012	1	W. T. Stephens, Wolfville, N.S.	0 40	
" 19..	27038	2	S. A. Rounsfell, Lunenburg.....	0 30	
" 21..	27041	3	W. H. Snook & Co., Truro.....	0 40	
" 21..	27043	4	J. H. Kent & Co. ".....	0 40	
" 21..	27044	5	Black & Co. ".....	0 30	
" 25..	27048	6	Hattie & Mylins, Halifax.....	0 32	Bought from manufacturer.
" 25..	27049	7	Brown & Webb ".....	0 28	" "
" 26..	27052	8	J. P. Mott & Co. ".....		" "
" 26..	27054	9	Simson Bros., Ltd. ".....	0 32	" "
" 26..	27056	10	H. W. Wentzall ".....	0 36	
" 26..	27058	11	W. H. Schwartz & Son ".....	0 30	Bought from manufacturer.
" 26..	27059	12	E. W. Crease ".....	0 30	
			<i>District of New Brunswick—J. C. Ferguson, Inspector.</i>		
June 24..	24014	1	Maritime Spice and Coffee Co., Ltd..	0 40	From manufacturer.
" 27..	24018	2	Dearborn & Co., St. John, N.B.....	0 50	" "
" 28..	24022	3	Vanwart Bros. ".....	0 40	
" 28..	24023	4	Puddington & Merritt ".....	0 50	
" 30..	24027	5	O. A. Lordly ".....	0 40	From manufacturer. Sold
July 4..	24036	6	W. A. Porter ".....	0 40	as compound.
" 6..	24039	7	McPherson Bros. ".....	0 40	
" ..	24046	8	James Ryan, St. John.....	0 40	
" ..	24080	9	C. H. Dickie, Shediac.....	0 40	
" ..	24090	10	D. Normand des Brissay, Bathurst...	0 30	
" ..	24094	11	Geo. Stables, Newcastle... ..	0 40	
" ..	24098	12	D. McLachlan, Chatham.....	0 30	
			<i>District of Prince Edward Island—T. Moore, Inspector.</i>		
June 28..	24445	1	John McKenna, Charlottetown.....	0 40	
" 28..	24448	2	R. F. Maddigan ".....	0 40	
" 28..	24453	3	Sanderson & Co. ".....	0 40	
" 28..	24457	4	Jenkins & Son ".....	0 40	
" 28..	24461	5	A. Gates & Co. ".....	0 36	
" 28..	24464	6	Bee & Goff ".....	0 40	
July 5..	24471	7	J. E. Birch, Alberton.....	0 34	
" 5..	24473	8	R. T. Holman, Summerside.....	0 36	
" 6..	24475	9	Brace & McKay ".....	0 36	
" 6..	24478	10	Waugh & Steeves ".....	0 36	
" 10..	24491	11	Stewart & Son, Charlottetown.....	0 36	
" 10..	24492	12	Edward Toombs ".....	0 36	
			<i>District of Quebec—C. E. Roy, Inspector</i>		
July 19..	27501	1	Ed. Turgeon, 55-56 Champlain.....	0 30	
" 20..	27502	2	Arcadeus Caron, Montmagny.....	0 40	
" 21..	27503	3	J. G. Fournier ".....	0 40	
" 21..	27504	4	J. F. Pouliot, L'Islet.....	0 36	
" 24..	27505	5	Lepage & Godbout, Chicoutimi . . .	0 40	Sold by clerk, and after sale
" 24..	27506	6	A. C. Blais & fils ".....	0 40	Mr. Godbout noticed it
" 25..	27507	7	L. E. Otis, Roberval.....	0 30	was compound.
" ..	27510	8	N. Lamontagne, Pt. Levis.		
" ..	27511	9	".....		
Aug. 10..	27512	10	Thos. McCord, St. Gregoire de Montmorency.	0 40	
" 12..	27580	11	M. Denis, 92 rue Bayard, Quebec....	0 26	
" ..	27500	12	Thorny Tremblay, Roberval.....		Marked 'compound,' but sold as pure.

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TABLE II.—WHITE PEPPER—JULY, 1905—Continued.

Date of Collection	Collector's Number.	Serial Number.	Name and Address of Vendor.	Cost per lb.	Inspector's Report.
			<i>District of St. Hyacinthe—J. C. Rouleau, Inspector.</i>	\$ cts.	
June 22..	24579	1	Mackrae Bros., Richmond	0 40	
" 22..	24580	2	Tobin & Chamberlain, Brompton Falls	0 35	
" 22..	24581	3	T. Denante, Arthabaskaville.....	0 40	
" 23..	24582	4	L. P. St. Pierre, Three Rivers.....	0 40	
" 23..	24583	5	T. Bournival "	0 30	
" 24..	24584	6	L. H. Paquin, Sorel.....	0 40	
" 26..	24585	7	M. L. Peloquin, St. Anne	0 20	
" 26..	24586	8	Ed. Collette, Verchères.....	0 40	
" 26..	24587	9	J. P. Moreault, St. Ours, Richelieu..	0 36	
" 27..	24588	10	P. Z. Ste. Marie, Longueuil	0 46	
" 28..	24589	11	Petit Frères, St. Hyacinthe.....	0 40	
" 28..	24590	12	Blanchard & Belanger "	0 40	
			<i>District of Montreal—J. J. Costigan, Inspector.</i>		
June 21..	26620	1	J. B. Vinet, 834 Craig.....	0 40	
" 21..	26621	2	Elie Dezeil, 176 Dorchester	0 36	
" 21..	26622	3	J. O. Bessette, 1662 St. Catherine ...	0 40	
" 21..	26623	4	P. J. Ryan, 66 Centre.....	0 36	
" 21..	26624	5	W. Fleury, 374 Centre.....	0 40	
" 21..	26625	6	J. O. Boudrias, 358 Centre.....	0 36	
" 21..	26626	7	J. B. Deschamps, 371 Centre	0 40	
" 26..	26627	8	R. Herron & Co., St. Paul St.....	0 28	
" 26..	26628	9	S. H. Ewing & Sons, King St.....	0 25	
" —..	26643	10	J. V. Boudreau, Notre Dame St.....	0 50	
" 27..	26629	11	J. A. Simard & Co., St. Paul St.....	0 23	
" 27..	26630	12	E. D. Marceau, St. Paul St	0 24	
			<i>District of Kingston—J. Hogan and A. E. Sanderson, Inspectors.</i>		
June 20..	25412	1	M. E. Barry, 115 Queen, Ottawa. ...	0 40	
" 20..	25413	2	A. Boivin, 80 Queen "	0 40	
" 20..	25414	3	F. A. Scott, 167 Rideau "	0 36	
" 20..	25415	4	A. L. Pinard, 118 Rideau "	0 40	
" 22..	25416	5	P. A. Haffner, 147 Montreal St., Kingston.	0 40	
" 22..	25417	6	James McCulla, 149 Montreal St., Kingston.	0 30	
" 22..	25418	7	W. E. Hopkinson & Bros., 37 Brock, Kingston.	0 40	
" 22..	25419	8	P. G. Wilmot, King St., Kingston...	0 40	
" 22..	25420	9	L. W. Murphy, Princess St. "	0 40	
" 22..	25421	10	John Gilbert, Barrie St. "	0 40	
" 23..	25422	11	John Painter & Son, Belleville	0 40	
" 23..	25423	12	Geo. Boyle, Front St. "	0 30	
			<i>District of Toronto.</i>		
July 18..	24801	1	John Malcolm, 350 Spadina Ave. ...	0 40	
" 18..	24802	2	Chas. Burch, 368 "	0 40	
" 18..	24803	3	M. E. Bush & Co., 285 College st....	0 40	
" 18..	24804	4	R. M. Ferguson, 272 "	0 40	
" 18..	24805	5	W. J. Sykes, 344 "	0 40	
" 19..	24806	6	Bradley & Sons, St. Catherines.....	0 36	
" 19..	24807	7	F. A. Wilson "	0 40	
June 20..	24808	8	F. F. Dalley Co., Hamilton	0 26	From manufacturer.
" 20..	24809	9	Hamilton Coffee & Spice Co.....	0 25	"
July 21..	24810	10	Todhunter & Mitchell, Toronto.....	0 30	"
" 21..	24811	11	J. M. Lowes & Co. "	0 25	"
" 21..	24812	12	Dalton Bros. "	0 22	"

TABLE II—WHITE PEPPER—JULY, 1905—*Concluded.*

Date of Collection	Collector's Number.	Serial Number.	Name and Address of Vendor.	Cost per lb.	Inspector's Report.
			<i>District of London—T. Kidd, Inspector.</i>	\$ cts.	
June 21..	22293	1	Andrew Young, Seaforth.....	0 40	
" 26..	22309	2	The Barnsdale Trading Co., Stratford.	0 50	
" 28..	22326	3	O. White, Woodstock.	0 40	
" 28..	22332	4	J. F. Wallace, Brantford.....	0 40	
July 6..	22337	5	Beck & Schell, Berlin	0 40	
" 6..	22340	6	Betzner & Co., Berlin	0 40	
" 7..	22344	7	Jackson & Son, Guelph....	0 40	
" 11..	22355	8	T. J. Clifton, Alleston	0 40	
" 12..	22360	9	G. B. Ray, Beeton	0 40	
" 13..	22362	10	Geo. Gordon, Tottenham.....	0 40	
" 14..	22364	11	Richie Bros., Orangeville.....	0 40	
" 14..	22371	12	V. T. Allen, Fergus.....	0 40	
			<i>District of Winnipeg—W. M. Conklin, Inspector.</i>		
July 21..	25501	1	T. A. Garland & Co., Portage la Prairie	0 50	
" 21..	25502	2	C. S. B. Barley, Portage la Prairie...	0 40	
" 21..	25503	3	Hudson Bay Co. "	0 40	From manufacturers.
" 19..	23995	4	J. H. Murray, Brandon.....	0 40	
" 19..	23997	5	The Symington Co., Brandon.....	0 40	
" 19..	23998	6	Wm. Dowling, Brandon.....	0 50	
" 20..	24000	7	T. R. Brough, Carberry.	0 40	
Aug. 2..	25520	8	W. Epstein, Selkirk.....	0 40	
" 2..	25522	9	C. Finkleman "	0 40	
" 2..	25523	10	Wm. Robinson, Selkirk.	0 40	
" 5..	25530	11	R. W. Ferrier, Kenora	0 40	
" 5..	25531	12	Gardiner & Co. "	0 40	
			<i>District of Calgary—W. Fletcher, Inspector.</i>		
July 21..	21804	1	Canada Grocers Sta., Calgary....	0 30	
" 21..	21809	2	Codville Smith Co. "	0 30	From manufacturers.
" 22..	21814	3	A. S. Cameron "	0 30	
" 25..	21827	4	Compton & Montgomery, Wetaskewine	0 30	
" 25..	21830	5	N. W. Gould, Wetaskewine.....	0 30	
" 27..	21834	6	Hudson Bay Co., Edmonton.....	0 30	From manufacturers.
" 27..	21839	7	Revillon Bros., Edmonton.	0 30	
" 27..	21844	8	McDougall & Secord, Edmonton.....	0 30	
" 27..	21849	9	Williamson Bros. "	0 30	
" 28..	21857	10	Groat & Elliott, Strathcona.....	0 30	
" 28..	21862	11	T. P. Malone "	0 30	
" 28..	21867	12	Douglass Bros. "	0 30	
			<i>District of British Columbia—E. B. Parkinson, Inspector.</i>		
June 26..	26905	1	A. Desbusay, Vancouver.....	0 40	
" 26..	26908	2	J. Deal "	0 40	
" 27..	26910	3	J. May "	0 50	
" 27..	26916	4	S. F. McCready "	0 40	
" 28..	26929	5	La Belle & Co. "	0 40	
" 29..	26936	6	F. Wright "	0 50	
July 4..	26939	7	A. R. Johnston, Nanaimo....	0 30	
" 6..	26947	8	R. Mowat, Victoria..	0 50	
" 6..	26950	9	Victoria Co-operative Ass'n. Ltd., Victoria.....	0 50	
" 6..	26956	10	Fred. Crane, Victoria, B.C.	0 50	
" 7..	26966	11	A. J. Morley "	0 40	From manufacturers.
" 7..	26967	12	Sternler & Collison "	0 50	"

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TABLE III.—BLACK PEPPER—JULY, 1905.

District.	Serial Number.	Collector's Number.	Ash.	Microscopic Examination.	Remarks.
Nova Scotia	1	27001	4.16	Wheat starch and stone cells.	Adulterated.
	2	27004	4.14	Pepper tissues only	Genuine.
	3	27008	5.26	"	"
	4	27011	5.78	"	"
	5	27020	4.98	"	"
	6	27031	5.08	"	"
	7	27034	4.88	"	"
	8	27035	4.72	"	"
	9	27036	4.50	"	"
	10	27047	6.74	"	"
	11	27050	4.12	"	"
	12	27053	5.60	"	"
New Brunswick.	1	24013	5.70	Pepper tissues only.	Genuine.
	2	24024	3.74	"	"
	3	24025	4.52	Wheat starch	Adulterated.
	4	24031	5.20	Wheat starch and stone cells.	"
	5	24033	4.64	Wheat starch	"
	6	24035	4.10	Wheat and maize starch.	"
	7	24041	4.96	Wheat starch	"
	8	24072	6.00	Wheat starch	"
	9	24076	6.56	" and stone cells.	"
	10	24089	3.96	Pepper tissues only	Genuine.
	11	24093	5.06	"	"
	12	24097	5.36	Wheat starch and other foreign matter.	Adulterated.
Prince Edward Island.	1	24436	5.82	Wheat starch and stone cells.	Adulterated.
	2	24439	5.02	Pepper tissues only.	Genuine.
	3	24446	6.40	Wheat and maize starch.	Adulterated.
	4	24449	14.44	Wheat starch and stone cells.	"
	5	24454	5.38	Pepper tissues only.	Genuine.
	6	24458	5.46	"	"
	7	24467	5.30	"	"
	8	24469	7.68	Pepper tissues and dirt	Adulterated.
	9	24480	11.90	"	"
	10	24482	6.60	Pepper tissues only.	Genuine.
	11	24487	4.80	"	"
	12	24489	6.80	"	"
	13	24490	5.70	"	"
Quebec.	1	27520	5.44	Pepper tissues only.	Genuine.
	2	27521	7.00	Wheat starch	Adulterated.
	3	27522	6.00	Buckwheat.	"
	4	27523	4.22	Pepper tissues only.	Genuine.
	5	27524	4.48	"	"
	6	27513	5.70	Wheat starch	Adulterated.
	7	27514	13.36	"	"
	8	27517	3.60	Stone cells	"
	9	27518	6.76	Pepper tissues only.	Genuine.
	10	27519	9.10	Maize starch.	Adulterated.
	11	27515	9.80	Wheat starch and dirt.	"
	12	27516	16.82	"	"
St. Hyacinthe	1	24571	6.00	Wheat starch	Adulterated.
	2	24572	3.46	" and stone cells.	"
	3	24573	8.00	"	"
	4	24574	12.54	Pepper tissues and dirt	"
	5	24575	8.5	Wheat starch	"
	6	24576	16.04	" and stone cells	"
	7	24577	5.16	" and charcoal.	"
	8	24578	13.12	" and stone cells.	"
	9	24567	6.16	"	"
	10	24568	15.16	Foreign matter, dirt.	"
	11	24569	9.14	Stone cells, &c.	"
	12	24570	8.44	"	"

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TABLE III.—BLACK PEPPER—JULY, 1905—*Continued.*

District.	Serial Number.	Collector's Number.	Ash.	Microscopic Examination.	Remarks.
Montreal	1	26632	9.02	Wheat starch, &c.	Adulterated.
	2	26633	7.60	"	"
	3	26634	5.24	"	"
	4	26635	5.38	"	"
	5	26636	6.26	"	"
	6	26631	5.28	Pepper tissues only	Genuine.
	7	26637	3.86	"	"
	8	26638	4.36	"	"
	9	26639	12.88	Wheat starch and stone cells	Adulterated.
	10	26640	7.24	Pepper tissues and dirt	"
	11	26641	5.50	Pepper tissues only	Genuine.
	12	26642	7.04	Wheat starch and stone cells	Adulterated.
Kingston	1	25424	3.48	Pepper tissues only	Genuine.
	2	25425	4.24	"	"
	3	25426	12.35	Stone cells, &c.	Adulterated.
	4	25427	4.58	Pepper tissues only	Genuine.
	5	25428	2.74	Wheat starch and stone cells	Adulterated.
	6	25429	4.20	Pepper tissues only	Genuine.
	7	25430	4.48	Wheat starch	Adulterated.
	8	25431	4.88	Pepper tissues only	Genuine.
	9	25433	4.52	"	"
	10	25432	4.70	"	"
	11	25434	2.06	Wheat starch and stone cells	Adulterated.
	12	25435	8.76	Pepper tissues and dirt	"
Toronto	1	24813	6.24	Pepper tissues only	Genuine.
	2	24814	3.86	"	"
	3	24815	4.76	"	"
	4	24816	3.76	Wheat starch	Adulterated.
	5	24817	6.32	Pepper tissues only	Genuine.
	6	24818	4.04	Wheat starch	Adulterated.
	7	24819	5.04	Pepper tissues only	Genuine.
	8	24820	4.08	"	"
	9	24821	5.00	"	"
	10	24822	5.10	"	"
	11	24823	4.30	"	"
	12	24,824	2.26	Wheat starch and stone cells	Adulterated.
London	1	22,295	4.40	Pepper tissues only	Genuine.
	2	22,298	4.32	"	"
	3	22,306	4.00	"	"
	4	22,304	5.84	"	"
	5	22,311	3.62	"	"
	6	22,317	6.12	Wheat starch	Adulterated.
	7	22,319	4.42	Pepper tissues only	Genuine.
	8	22,328	4.24	"	"
	9	22,330	4.86	Wheat starch	Adulterated.
	10	22,335	5.20	Pepper tissues only	Genuine.
	11	22,339	4.30	"	"
	12	22,369	4.24	"	"
Winnipeg	1	23,993	5.12	Wheat starch	Adulterated.
	2	23,994	8.02	Stone cells	"
	3	25,504	8.30	Pepper tissues and dirt	"
	4	25,505	6.84	Pepper tissues only	Genuine.
	5	25,506	5.32	"	"
	6	25,507	4.84	"	"
	7	25,508	4.38	"	"
	8	23,996	8.44	Pepper tissues and dirt	Adulterated.
	9	23,999	4.90	Pepper tissues only	Genuine.
	10	24,000	4.60	"	"
	11	25,521	6.94	"	"
	12	25,527	3.00	Wheat starch	Adulterated.
	13	25,532	7.20	Pepper tissues and dirt	"

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TABLE III.—BLACK PEPPER—JULY, 1905—*Concluded.*

District.	Serial Number.	Collector's Number.	Ash.	Microscopic Examination.	Remarks.
Calgary	1	21,805	4 88	Pepper tissues only	Genuine.
	2	21,808	4 48	"	"
	3	21,813	14 00	Stone cells, etc	Adulterated.
	4	21,818	4 84	Wheat starch	"
	5	21,820	4 07	Pepper tissues only	Genuine.
	6	21,835	8 04	Pepper tissues and dirt	Adulterated.
	7	21,840	6 14	Wheat starch, etc	"
	8	21,845	3 90	Pepper tissues only	Genuine.
	9	21,850	3 28	"	"
	10	21,861	4 78	Wheat starch	Adulterated.
	11	21,863	7 60	Wheat starch and stone cells	"
	12	21,868	4 40	Pepper tissues only	Genuine.
British Columbia	1	26,904	5 20	Pepper tissues only	Genuine.
	2	26,907	4 76	Wheat starch and stone cells	Adulterated.
	3	26,911	4 20	Pepper tissues only	Genuine.
	4	26,917	3 28	"	"
	5	26,923	4 20	Wheat starch and stone cells	Adulterated.
	6	26,928	3 46	Pepper tissues only	Genuine.
	7	26,940	4 18	"	"
	8	26,948	4 72	"	"
	9	26,949	7 64	Pepper tissues and dirt	Adulterated.
	10	26,955	5 20	Pepper tissues only	Genuine.
	11	26,965	5 80	A little wheat starch	Doubtful.
	12	26,968	5 56	Pepper tissues only	Genuine.

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TABLE IV.—WHITE PEPPER—JULY, 1905.

District.	Serial Number.	Collector's Number.	Ash.	Microscopic Examination.	Remarks.
Nova Scotia	1	27,012	0·88	Pepper tissues only	Genuine.
	2	27,038	1·04	"	"
	3	27,041	0·96	"	"
	4	27,043	0·80	"	"
	5	27,044	0·94	"	"
	6	27,048	3·20	"	"
	7	27,049	0·82	"	"
	8	27,052	0·80	"	"
	9	27,054	0·96	"	"
	10	27,056	1·06	"	"
	11	27,058	0·90	"	"
	12	27,059	1·88	"	"
New Brunswick	1	24,014	1·22	Pepper tissues only	Genuine.
	2	24,018	1·12	"	"
	3	24,022	2·42	"	"
	4	24,023	1·20	"	"
	5	24,027	2·60	Wheat starch	Adulterated.
	6	24,036	1·12	Pepper tissues only	Genuine.
	7	24,039	2·04	"	"
	8	24,046	1·66	"	"
	9	24,080	2·46	"	"
	10	24,090	0·94	"	"
	11	24,094	0·72	"	"
	12	24,098	0·86	"	"
Prince Edward Island.	1	24,445	0·80	Pepper tissues only	Genuine.
	2	24,448	0·80	"	"
	3	24,453	0·82	"	"
	4	24,457	1·06	"	"
	5	24,461	0·88	"	"
	6	24,464	1·00	"	"
	7	24,471	4·80	Foreign tissues not identified.	Adulterated.
	8	24,473	2·48	Pepper tissues only	Genuine.
	9	24,475	1·36	Wheat starch	Adulterated.
	10	24,478	0·94	Pepper tissues only	Genuine.
	11	24,491	0·84	"	"
	12	24,492	2·12	"	"
	13	24,046	1·56	"	"
Quebec	1	27,501	3·50	Wheat starch and stone cells.	Adulterated.
	2	27,502	3·20	"	"
	3	27,503	1·96	Foreign tissues, not identified	"
	4	27,504	2·18	Wheat starch	"
	5	27,505	4·20	Buckwheat, etc.	"
	6	27,506	1·34	Pepper tissues only	Genuine.
	7	27,507	8·46	Wheat starch and dirt	Adulterated.
	8	27,510	2·36	Wheat starch	"
	9	27,511	1·70	Pepper tissues only	Genuine.
	10	27,512	2·50	Wheat starch	Adulterated.
	11	27,580	2·40	"	"
	12	27,509	.....	This sample not received.	
St. Hyacinthe.	1	24,579	3·12	Pepper tissues only	Genuine.
	2	24,580	2·92	Wheat starch	Adulterated.
	3	24,581	1·68	"	"
	4	24,582	2·96	Pepper tissues only	Genuine.
	5	24,583	1·82	"	"
	6	24,584	7·70	Pepper tissues and dirt	Adulterated.
	7	24,585	12·20	Wheat starch, stone cells, &c.	"
	8	24,586	2·18	"	"
	9	24,587	2·10	Traces of wheat starch	Doubtful.
	10	24,588	2·14	Wheat starch	Adulterated.
	11	24,589	2·80	Pepper tissues only	Genuine.
	12	24,590	3·04	"	"

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TABLE IV.—WHITE PEPPER—JULY 1905—*Continued.*

District,	Serial Number.	Collector's Number.	Ash.	Microscopic Examination.	Remarks.
Montreal.....	1	26,620	1·80	Pepper tissues only.....	Genuine.
	2	26,621	2·20	".....	"
	3	26,622	2·24	Wheat starch.....	Adulterated.
	4	26,623	2·14	".....	"
	5	26,624	1·74	".....	"
	6	26,625	1·00	Pepper tissues only.....	Genuine.
	7	26,626	2·54	".....	"
	8	26,627	3·40	".....	"
	9	26,628	0·90	".....	"
	10	26,643	1·18	".....	"
	11	26,629	4·64	Stone cells, &c.....	Adulterated.
	12	26,636	0·96	Pepper tissues only.....	Genuine.
Kingston.....	1	25,412	0·36	Wheat starch.....	Adulterated.
	2	25,413	14·86	" and stone cells, &c..	"
	3	25,414	0·70	Foreign tissues, not identified....	"
	4	25,415	2·66	Pepper tissues only.....	Genuine.
	5	25,416	2·20	".....	"
	6	25,417	2·30	".....	"
	7	25,418	1·04	Wheat starch.....	Adulterated.
	8	25,419	0·90	Traces wheat starch.....	Doubtful.
	9	25,420	1·20	Wheat starch.....	Adulterated.
	10	25,421	2·04	Pepper tissues only.....	Genuine.
	11	25,422	2·64	Wheat starch.....	Adulterated.
	12	25,423	1·04	Pepper tissues only.....	Genuine.
Toronto.....	1	24,801	1·34	Wheat starch.....	Adulterated.
	2	24,802	2·16	Pepper tissues only.....	Genuine.
	3	24,803	1·40	".....	"
	4	24,804	2·44	".....	"
	5	24,805	1·10	".....	"
	6	24,806	1·64	".....	"
	7	24,807	3·02	Wheat starch.....	Adulterated.
	8	24,808	1·06	Pepper tissues only.....	Genuine.
	9	24,809	0·72	".....	"
	10	24,810	1·02	".....	"
	11	24,811	1·16	".....	"
	12	24,812	4·54	A little wheat starch.....	Doubtful.
London.....	1	22,293	1·14	Pepper tissues only.....	Genuine.
	2	22,309	2·74	Wheat starch.....	Adulterated.
	3	22,326	2·90	Pepper tissues only.....	Genuine.
	4	22,332	2·02	Wheat starch.....	Adulterated.
	5	22,337	0·88	Pepper tissues only.....	Genuine.
	6	22,340	2·08	".....	"
	7	22,344	2·12	".....	"
	8	22,355	0·72	Wheat starch.....	Adulterated.
	9	22,360	0·78	".....	"
	10	22,362	1·68	Pepper tissues only.....	Genuine.
	11	22,364	1·88	".....	"
	12	22,371	2·40	".....	"
Winnipeg.....	1	25,501	1·72	Pepper tissues only.....	Genuine.
	2	25,502	0·80	Wheat starch.....	Adulterated.
	3	25,503	2·00	Pepper tissues only.....	Genuine.
	4	23,995	0·88	".....	"
	5	23,997	2·22	".....	"
	6	23,998	1·28	Wheat starch.....	Adulterated.
	7	24,000	4·60	Pepper tissues only.....	Genuine.
	8	25,520	1·00	".....	"
	9	25,522	1·92	".....	"
	10	25,523	1·00	Wheat starch.....	Adulterated.
	11	25,530	2·24	".....	"
	12	25,531	2·14	".....	"

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TABLE IV—WHITE PEPPER—JULY, 1905—*Concluded.*

District.	Serial Number.	Collector's Number.	Ash.	Microscopic Examination.	Remarks.
Calgary	1	21,804	0·94	Pepper tissues only	Genuine.
	2	21,809	1·10	"	"
	3	21,814	5·80	"	"
	4	21,827	1·58	Wheat starch	Adulterated.
	5	21,830	4·10	Pepper tissues only	Genuine.
	6	21,834	1·46	A little wheat starch.	Doubtful.
	7	21,839	1·64	Pepper tissues only	Genuine.
	8	21,844	0·98	"	"
	9	21,849	0·84	"	"
	10	21,857	2·60	"	"
	11	21,862	0·94	"	"
	12	21,867	0·98	"	"
British Columbia	1	26,905	2·56	Pepper tissues only	Genuine.
	2	26,908	1·80	"	"
	3	26,910	0·96	"	"
	4	26,916	1·34	Wheat starch	Adulterated.
	5	26,929	1·82	Leguminous starch.	"
	6	26,936	1·30	Pepper tissues only	Genuine.
	7	26,939	4·00	"	"
	8	26,947	1·02	Wheat starch	Adulterated.
	9	26,950	1·24	"	"
	10	26,956	1·00	"	"
	11	26,966	2·02	"	"
	12	6,967	1·00	Pepper tissues only	Genuine.

APPENDIX B.

BULLETIN No. 107—DOMESTIC BUTTER.

LABORATORY OF THE INLAND REVENUE DEPARTMENT,
317 QUEEN ST.,
OTTAWA, ONT., September 11, 1905.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

DEAR SIR,—I have the honour to hand you a report upon domestic butter, i.e., butter as found in the retail market, and intended for home consumption. This report comprises the results of the analysis of one hundred and eighty (180) samples, collected under your authorization in July last.

It is regrettable that owing to delay on the part of Lyman Sons & Co., of Montreal, in supplying containers to our inspectors, no samples were collected in the districts of Nova Scotia, New Brunswick and Prince Edward Island. In each of the remaining (nine) districts, twenty samples were collected.

The work of analysis has been done in this laboratory and I have to acknowledge valuable assistance on the part of Mr. Valin and Miss Wright.

Most of these samples are farm made butters, and many of the vendors were unable to trace samples to their origin. Nineteen of the samples are designated as 'creamery made.'

We hear so much about the presence of borax and boracic acid in export Canadian butter, that it is very surprising to find only one of the samples included in this report containing this preservative. The sample in question (No. 18, Montreal) was purchased from Ewan Bros., 376 St. Antoine St., Montreal, but its maker is unknown.

In further corroboration of the absence of borax in domestic butter, I caused eleven (11) samples of creamery butter as supplied to the Ottawa market, and representing as many different makers to be specially examined. Farm made butters being apparently quite free from borax, I wished to know whether the preservative was used by the larger creameries. The following results were obtained with these samples:—

Creamery.	Vendor	Borax.
A—Maxville (Edwards Creamery Co).....	McGregor.....	Present.
B—Rising Sun (North Wakefield).....	".....	"
C—Golden Leaf.....	Scott.....	None.
D—Renfrew.....	Bate.....	Present.
E—Aldernay (Wellington St.)..	Bryson & Graham.....	None.
F—Arnprior.....	Moreland.....	"
G—Hilbrook (Prescott).....	Lindsay.....	"
H—Laurentian (N. Nation Mills).....	Bate.....	"
I—Royal (East Templeton)..	".....	"
K—Ottawa Cold Storage.....	Matthews.....	"
L—Favorite.....	Ottawa Dairy Co.....	"

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Thus it appears that three (3) out of eleven creameries supplying butter to Ottawa use borax. It is noteworthy that No. 25472 (No. 1, Kingston), said to be Renfrew creamery, contains no borax.

I do not wish at this time to raise the question of the desirability of employing borax in butter. There is certainly no legal objection to its use. But it is a highly interesting fact, that Canadian farm-made butter is free from borax, and that even creamery-made butter contains it quite exceptionally.

The last extensive examination of butter under the Food Act, was made in this laboratory in 1890. At that time (See Bull. 16), 150 samples were analysed; the examination having special regard to the possible presence of foreign fat (Oleo-margarine).

In the present instance the numbers tabulated under 'Refractometer,' indicate that no foreign fat exists in any of the samples now reported. It may be explained that the refractive *index* of the butter fat is observed at temperature above the *melting* point of the fat. The exact temperature of observation need not be known, since the figure found is checked by a specially graduated thermometer whose scale shows the mean reading for genuine butter fat at the temperature of observation. This number is entered in the table under the caption 'Normal,' while the observed reading is placed beside it, in the column headed 'Found.' A difference of about one unit is permissible, owing to variations in the constitution of genuine butter fat, and to incipient rancidity.

The question of the amount of water which may legitimately be present in butter has often been discussed. In 150 samples examined in 1890, the mean water percentage was 8.97. A very careful study of the amount of water present in Canadian creamery butter was made by Mr. Shutt, Chemist of the Experimental Farms, in 1902. Of 105 samples examined, only two showed more than 15 per cent water; only one sample exceeded 16 per cent; and ninety-two samples fell below 14 per cent. Sixteen per cent of water is, I believe, the limit fixed by English law, for imported butter. It will be seen that only one sample (No. 14, St. Hyacinthe) exceeds this amount. Only eight (8) samples exceed 14 per cent of water, while 114 samples contain less than 10 per cent.

The salt present has been determined by estimating the chlorine, and is therefore slightly below the quantity actually used for two reasons.

1st.—Commercial salt is not pure chloride of sodium, but contains traces of sulphates, etc.

2nd.—No allowance is made for the hygroscopic moisture in commercial salt. This last may frequently reach 10 per cent of its weight.

The demand for *fresh* butter, i. e., butter containing but little salt, is evidenced by the low percentage of salt found. In 1890 the salt content varied from 15.16 per cent to 1.0 per cent, the average amount being 5.15 per cent. In the present collection the average amount of salt is about 3.5 per cent.

The numbers given under 'curd' are obtained by subtracting the 'salt' from the 'non-fat solids.' Since the former number is somewhat low, for reasons just given, the 'curd' percentage will be correspondingly higher than the truth. The keeping qualities of a butter (apart from the addition of antiseptics) depend largely upon the completeness with which the curd is removed. This is effected by 'working' the butter. A too complete removal of the curd, however, injures the taste of the butter, and as the public demands a table butter of distinct aroma and taste, the tendency will be to reduce the so-called 'working' of the butter to a minimum, and to depend upon cold storage and the addition of preservatives to give it keeping quality.

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It was proposed by Dr. Vieth of the Aylesbury Dairy Company, London, England, in 1890, that no butter offered for sale should contain less than 80 per cent of butter fat. Judged by this standard, seven (7) samples of the present collection would be condemned as follows :—

No. 14—St. Hyacinthe	78·60	Butter fat.
“ 1—Montreal	77·38	“
“ 4— “	79·38	“
“ 18— “	79·32	“
“ 11—Kingston	79·78	“
“ 12— “	79·72	“
“ 17—London	79·84	“

It is, however, to be added, that 113 samples (=63%) contain more than 85 per cent of butter fat.

I would respectfully recommend the publication of this Report as Bulletin 107.

I have the honour to be, sir,
Your obedient servant,

A. MCGILL,
Acting Chief Analyst.

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TABLE I.—DOMESTIC BUTTER—JULY, 1905

Date of Collection.	Collector's Number.	Serial Number.	Name and Address of Vendor.	Cost per lb.	Name and Address of Manufacturer or Furnisher, when known.
<i>District of Quebec—C. E. Roy, Inspector.</i>				\$ cts.	
Aug. 10	27537	1	Timothé Goudreau, Limoulou.....	0 20	Damase Rouleau, Quebec.
" 10	27538	2	E. P. Bérubé, Limoulou.....	0 22	Bill Devine, Stoneham.
" 11	27539	3	G. G. Devarennés et Cie, Rue St. Vallier, Place sans Bruit, Quebec.	0 24	Not known.
" 11	27540	4	J. E. Rosseau, Rue St. Vallier, Place sans Bruit, Quebec.	0 21	David McKinley, Valcartier.
" 11	27541	5	Jos. Bloin, 90 Rue St. Sauveur, St. Malo, Que.	0 22	Not known.
" 12	27542	6	J. Pepin, 132 Rue Massue, St. Sauveur, Que.	0 22	Thom. Knox, Valcartier.
" 12	27543	7	Leo. Vidal, 146 Rue Bayard, St. Sauveur, Que.	0 24	Alf. Marceau, St. Anseline.
" 12	27544	8	J. A. Lachance, 133 Rue Charest, St. Roch.	0 25	Ed. Côté, Quebec.
July 24	27532	9	Lepage & Godbout, Chicoutimi.....	0 19	M. Gagné, St. Jérôme.
" 24	27533	10	Bouchard & Michaud ".....	0 20	Taddy Tremblay, St. Fulgence.
" 26	27534	11	M. Turgeon, Lévis.....	0 22	M. Bergeron, St. Nicholas.
" 19	27525	12	Jean Drotet, 41 Marché Champlain...	0 18	M. Kelly, Inverness.
" 19	27526	13	" " ".....	0 22	Theodule Paquet, St. Nicholas.
" 20	27527	14	L. Mercier et Cie, 1157 St. Paul, Que.	0 20	Capt. Lesvéque, Isle Verte.
" 27	27536	15			
" 27	27535	16			
" 20	27528	17	J. A. Poliquin, Montmagny.....	0 18	Henri Laverdière, Notre Dame du Rosaire.
" 21	27529	18	A. Maurais, Ste. Anne de la Pocardiére.	0 18	France Ligott, St. Onésime.
" 22	27530	19	J. O. Giard, Rivière du Loup.....	0 22	Euchariste Belanger, St. Antoine.
" 22	27531	20	P. O. L. J. Ouellet, Rivière du Loup	0 22	Theodule Chouinard, St. Maurice.
<i>District of St. Hyacinthe—J. C. Rouleau, Inspector.</i>					
July 19	24741	1	G. E. Brown, Pt. Fortune... ..	0 20	B. Chouimillard, St. Thomas de Rigaud.
" 19	24742	2	Mde L. Landry, Buckingham.....	0 22	Arsele Reau, near Buckingham.
Aug. 29	24743	3	J. L. Richard, St. Jérôme....	0 20	Thos. Bows, Mille Isle.
" 30	24744	4	Wm. Stafford, Joliette.....	0 18	Neuse rappelle pas.
" 30	24745	5	Paul Clement, St. Gabriel.....	0 24	Emery Rondeau, St. Gabriel de B.
Sept. 1	24746	6	Louis Hamel, Nicolet.....	0 24	Proulx & frères, Nicolet.
" 1	24747	7	Ed. Marchand ".....	0 24	V. Gelinas, St. Gregoire, de Nicolet.
Aug. 9	24728	8	Guillet & Menard, Farnham.....	0 18	D. Hatherington, St. Bridgette.
" 9	24729	9	J. B. Nadeur, Farnham.....	0 24	Jos. Potvin, Farnham.
" 9	24730	10	Jos. Gagné, Sherbrooke.....	0 22	J. Broadbill, Orford.
" 9	24731	11	S. Fortier, East Sherbrooke.....	0 25	M. McCallister, Sherbrooke.
" 9	24732	12	Biron & Blouin, East Sherbrooke....	0 22	F. A. Bourque ".....
" 14	24733	13	O'Carrignan et fils, Trois Rivières....	0 22	Gunn, Langlois et Cie, Montreal.
" 14	24734	14	Louis Bum Ile et frères ".....	0 23	W. E. Clement, Trois Rivières.
" 15	24735	15	P. C. Lemoine, Sorel.....	0 25	A. Magnan, Sorel.
" 15	24736	16	A. Francœur et Cie, Sorel.....	0 20	Hislop & Hunter, Montreal.
" 22	24737	17	A. Brassard, Laprairie.....	0 24	J. E. Laroche, St. Philippe.
" 23	24738	18	Richer & Daoust, Valleyfield... ..	0 23	Howard & Co., Eganville.
" 23	24739	19	Seguin & Courville ".....	0 23	Green, Langlois & Co., Montreal.
" 23	24740	20	L. Bourbonnais, Coteau Landing	0 25	Georgius Bourbonnais, Coteau Landing.
<i>District of Montreal—J. J. Costigan, Inspector.</i>					
Aug. 1	26644	1	C. H. Poudrier, Bonsecours Market..	0 25	Gunn & Langlois, Montreal.
" 1	26645	2	" " ".....	0 22	Not known.
" 1	26646	3	R. J. Smith, Bonsecours Market....	0 24	Hugh Allan, Montreal.
" 1	26647	4	" " ".....	0 20	White Packing Co., Montreal.
" 1	26648	5	N. Ethier ".....	0 23	Not known.
" 1	26649	6	" " ".....	0 20	".....

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TABLE I.—DOMESTIC BUTTER—JULY, 1905—*Continued.*

Date of Collection.	Collector's Number.	Serial Number.	Name and Address of Vendor.	Cost per lb.	Name and Address of Manufacturer or Furnisher, when known.
<i>District of Montreal—J. J. Costigan, Inspector—Con.</i>				\$ cts.	
Aug. 2	26650	7	A. Cardinal, St. James Market.....	0 20	Duclos & Lajeunesse, Montreal.
" 2	26651	8	" " ".....	0 25	Fortier & Monnetts, Montreal.
" 2	26652	9	D. Desautels ".....	0 24	Jno. Taylor & Co., Montreal.
" 2	26653	10	" " ".....	0 21	Not known.
" 2	26654	11	" " ".....	0 21	"
" 2	26655	12	C. Beausoliel, 1284 Ontario St....	0 25	N. Ethier, Montreal.
" 2	26656	13	" " ".....	0 22	Not known.
" 2	26657	14	O. A. Bigaouette, 1341 Ontario St....	0 25	"
" 2	26658	15	" " ".....	0 20	"
" 2	26659	16	J. B. Vanier, 1028 St. James St....	0 25	"
" 2	26660	17	" " ".....	0 21	"
" 2	26661	18	Ewan Bros., 376 St. Antoine St....	0 26	"
" 2	26662	19	Wylie & Rice, 8 Coursol St.....	0 26	Smail Bros., Kelso, P.Q.
" 2	26663	20	" " ".....	0 25	D. Cook, Bainsville, Ont.
<i>District of Kingston—J. Hogan and A. E. Sanderson, Inspectors.</i>					
June 23	25472	1	Rigney & Hickey, Princess St., Kingston.	0 25	Renfrew Creamery.
" 23	25473	2	" " ".....	0 22	Mrs. W. J. Fraser, Ardoch, Ont.
" 23	25474	3	W. H. Carnovsky, Brock St., Kingston.	0 18	M. C. Lawlor, Whitby, Ont.
" 23	25475	4	T. J. Polley, Brock St., Kingston....	0 22	T. J. Polley, Brock St., Kingston.
July 22	24851	5	White & Gillespie, George St., Peterboro'.	0 23	J. S. Walsh, Springville.
" 22	25477	6	" " ".....	0 22	Elden Creamery.
" 22	25478	7	Geo. Matthew Co., Ltd., Retail Store, Peterboro'.	0 20	Not known.
" 22	25479	8	" " ".....	0 22	T. M. Greer, Peterboro'.
" 22	25480	9	W. H. Hamilton, Simcoe St., Peterboro'.	0 23	Sandford & McIntosh, Fenelon Falls.
" 22	25481	10	" " ".....	0 23	Stillbrook Creamery.
Aug. 11	25487	11	J. E. Chevrier, Pitt St., Cornwall...	0 25	N. Lauzon, Tyotown, Ont.
" 11	25488	12	J. G. Kilgour, First St. ".....	0 23	Not known.
" 11	25489	13	Mrs. W. Warrington, First St., Cornwall.	0 22	"
" 11	25490	14	W. J. McDonald, Pitt St., Cornwall.	0 27	A. McCullough, Montreal.
" 11	25491	15	R. Nicoll, Pitt St., Cornwall.....	0 28	Spring Valley Creamery.
" 10	25482	16	J. Bradley, Main St., Prescott.....	0 25	Hillbrook Creamery.
" 10	25483	17	McDermott & McCarthy, Main St., Prescott.	0 25	F. M. Scott, Prescott.
" 10	25484	18	" " ".....	0 20	Not known.
" 10	25485	19	C. Whitney & Son, Main St., Prescott.	0 24	"
" 10	25486	20	W. J. Bovaird, Main St., Prescott...	0 22	"
<i>District of Toronto.</i>					
July 18	24840	1	John Malcolm, 350 Spadina Ave.	0 20	Not known.
" 18	24841	2	Chas. Burch, 368 ".....	0 20	"
" 18	24842	3	L. Kelly, 380 ".....	0 20	T. McCracken, Rosemount.
" 18	24843	4	M. Moore & Son, 402 ".....	0 25	Locust Hill Creamery.
" 18	24844	5	" " ".....	0 24	Brownsville Creamery.
" 18	24845	6	M. Mayer & Son, 408 ".....	0 25	M. M. Weber, Waterloo.
" 18	24846	7	Vair Produce Co., 468 ".....	0 20	D. B. McQuaig, Barrie, Ont.
" 18	24847	8	" " ".....	0 20	R. J. Russell " "
" 18	24848	9	M. E. Bush & Co., 285 College St....	0 23	R. B. Cowie, Derryville.
" 19	24849	10	Edwin Moore, St. Paul Street, St. Catherines.	0 22	Not known.
" 19	24850	11	Davies Co., Ltd., St. Catherines.....	0 20	"

TABLE I.—DOMESTIC BUTTER—JULY, 1905--*Continued.*

Date of Collection.	Collector's Number.	Serial Number.	Name and Address of Vendor.	Cost per lb.	Name and Address of Manufacturer or Furnisher, when known.
				\$ cts.	
			<i>District of Toronto—Con.</i>		
July 19	25476	12	W. A. Sherwood & Co., St. Paul Street, St. Catherines.	0 24	Not known.
" 20	24852	13	F. W. Fearman & Co., McNab St., Hamilton.	0 24	J. Malcolm & Son.
" 20	24853	14	Peebles, Hobson & Co., King, St. W. Cor. McNab and Hamilton Sts.	0 25	Mrs. Main, Hagersville.
" 20	24854	15	" " " " " "	0 25	St. Mary's Creamery Co.
" 20	24855	16	W. H. Ryckman & Co., 16 McNab St., Hamilton.	0 22	Gibson, Grand River.
July 20	24856	17	W. H. Ryckman & Co., 16 McNab St., Hamilton.	0 17	Nelson Creamery.
" 20	24857	18	W. R. Budge, McNab, cor. Market St., Hamilton.	0 22	Not known.
" 20	24858	19	Fowler Canadian Co., Market Hall, Hamilton.	0 22	M. A. Valeur, Beverly.
" 20	24859	20	W. C. Hoover, Market Hall, Hamilton.	0 22	Mrs. T. Reid, Hagersville.
			<i>District of London—T. Kidd, Inspector.</i>		
June 22	22300	1	J. J. McEwen, Goderich.....	0 16	M. Taggart, Colbourn Township.
" 23	22305	2	James Canning, Dublin.....	0 16	Mrs. John Pattric, Hibbert Township.
" 22	22302	3	T. S. Ford & Co., Mitchell.....	0 16	Mrs. Robt. Rooney " "
" 22	22297	4	Cantelon Bros., Clinton, Ont.....	0 16	R. McClenol, Clinton.
" 26	22310	5	Edward O'Flaherty, Stratford.....	0 17	Mrs. M. J. Crowley, Ellis Township.
" 26	22313	6	John Gray, St. Mary's.....	0 16	Mrs. Muxworth, Fullerton Township.
" 27	22318	7	F. G. Murphy, 246 Dundas St., London.	0 18	Mrs. Hodgins Birr, London.
" 27	22321	8	C. A. O'Neill, Ingersoll.....	0 20	J. W. Harrison, Dearham Township.
" 28	22323	9	Pool & Co., Woodstock.....	0 20	S. Laurence, Oxford Township.
" 28	22327	10	R. V. Vair.....	0 15	Noble Dickinson, Norwich.
July 6	22334	11	Dunke & Co., Berlin.....	0 18	Mr. Nathin Clemmer, Waterloo Tp.
" 7	22342	12	A. G. Fitzsimons, Guelph.....	0 15	Mrs. Lush, Guelph.
" 7	22345	13	Benson Bros., Guelph.....	0 16	Mrs. McCrea, Guelph Township.
" 7	22347	14	J. M. Dooley, Guelph.....	0 16	Mrs. Black " "
" 7	22351	15	John Stone, Galt.....	0 20	George Kitcher, St. Georges.
" 10	22354	16	McKay Bros., Georgetown.....	0 15	Mrs. Wm. Hoare, Georgetown.
" 11	22356	17	D. J. Downey, Alliston.....	0 15	Mrs. Pennilton, Mulmer Tp.
" 12	22359	18	George E. Reynolds, Beeton.....	0 16	Mrs. Ramsey, Tecumsetts Tp.
" 13	22363	19	William Hammell, Tottenham.....	0 16	Mrs. Wm. King " "
" 14	22365	20	McBride & Gillespie, Orangeville...	0 16	T. J. Henery, Caleder Tp.
			<i>District of Winnipeg—W. M. Conklin, Inspector.</i>		
Aug. 4	25524	1	Otto Schultz, Gretna.....	0 20	Not known.
" 5	25528	2	J. T. Brett, Kenora.....	0 25	R. Gould, Kenora.
" 5	25529	3	H. E. Hook & Co., Kenora.....	0 25	Merrick Bros., McGregor, Man.
" 8	25533	4	The Retail Co., Morden.....	0 15	Not known.
" 8	25534	5	T. H. Heinman, Morden.....	0 15	"
" 8	25535	6	P. A. Young & Co., Crystal City...	0 15	"
" 8	25537	7	J. G. McLean & Co., Pilot Mound...	0 15	"
" 9	25539	8	W. Pennington, Cartwright.....	0 15	"
" 10	25541	9	F. J. Messens, Holintfield.....	0 15	"
" 10	25542	10	Jones Bros., Ninga.....	0 15	"
" 11	25544	11	McAllister & Robinson, Boissevain..	0 15	"
" 15	25545	12	G. McClure, Carman.....	0 15	"
" 15	25546	13	G. D. Raymond, Carman.....	0 15	"
" 15	25547	14	A. E. Hill Co., Carman.....	0 18	"
" 16	25548	15	W. Noble, Glenboro'.....	0 15	"
" 16	25549	16	J. F. Fumerton, Glenboro'.....	0 15	"
" 16	25550	17	Wm. Dickson, Holland,....	0 15	"

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TABLE I.—DOMESTIC BUTTER—JULY, 1905--*Concluded.*

Date of Collection.	Collector's Number.	Serial Number.	Name and Address of Vendor.	Cost per lb.	Name and Address of Manufacturer or Furnisher, when known.
			<i>District of Winnipeg—W. M. Conklin, Inspector--Con.</i>	\$ cts.	
Aug. 16	25551	18	W. F. Schooley, Holland	0 15	Not known.
" 17	25552	19	McRory & McCosh, Souris.....	0 20	"
" 17	25553	20	A. E. Brindle, Souris	0 15	"
			<i>District of Calgary—W. Fletcher, Inspector.</i>		
July 18	21800	1	Hatfield & McSaren, Calgary.....	0 20	Charles Ostrom, Calgary District.
" 18	21801	2	Brown & Knight "	0 20	F. C. Brook, Langdon.
" 22	21812	3	A. S. Cameron "	0 20	Joseph Robinson, Calgary Dist.
" 22	21817	4	Hudson Bay Co. "	0 20	Mrs. A. Rodgers "
" 22	21819	5	Calgary Milling Co. "	0 20	F. Moorehouse "
" 25	21821	6	Star Trading Co., Wetaskiwin.....	0 15	H. H. Millar, Wetaskiwin.
" 25	21824	7	Compton & Montgomery "	0 15	Not known.
" 25	21828	8	N. W. Gould "	0 20	"
" 25	21832	9	A. R. Dickson "	0 20	G. T. Thorson, Wetaskiwin.
" 27	21838	10	Hudson Bay Co., Edmonton	0 20	Mrs. Fielders, Poplar Lake, Alta.
" 27	21843	11	Revillon Bros. "	0 20	A. D. Wilson, Nanaimo, Alta.
" 27	21848	12	McDougall & Secord "	0 20	John J. Bell, Horse Hills, Alta.
" 27	21853	13	Williamson Bros. "	0 20	Mrs. Macnamara, St. Albert, Alta.
" 27	21855	14	Joe Morris "	0 20	M. Ulmar, Stoney Plain, Alta.
" 27	21856	15	The Whitelaw Co Sta., Edmonton ..	0 20	Mrs. Joe Wilson, Belmont, Alta.
" 28	21860	16	C. Sugarman, Strathcona... ..	0 20	Andrew Klapstein, Ellerslie, Alta.
" 28	21865	17	J. P. Malone "	0 20	Ira Fulton, Strathcona.
" 28	21870	18	Douglas Bros. "	0 20	Mrs. Sutherland, Strathcona.
" 28	21872	19	A. H. Richards & Co., Strathcona...	0 20	C. Chambers, Cooking Lake, Alta.
" 28	21875	20	D. L. Ghormley "	0 20	A. McLeod, Rabbit Hills, Alta.
			<i>District of British Columbia—E. B. Parkinson, Inspector.</i>		
June 27	26913	1	Webster Bros., Vancouver	0 25	M. Finseth, Bardo, Alberta.
" 27	26914	2	" "	0 25	F. West, Agassiz, B. C.
" 27	26915	3	" "	0 25	Richmond Dairy Co., Vancouver.
" 27	26918	4	H. O'Lea "	0 25	Not known.
" 27	26922	5	J. P. Nightingale "	0 25	Maple Leaf Creamery, Ont.
" 28	26924	6	S. T. Wallace "	0 25	The Chiliwack Creamery, Chiliwack, B.C.
" 28	26927	7	LaBelle & Co. "	0 30	McCollough Bros., Montreal.
" 28	26932	8	C. Charters "	0 25	Griffin & Co., Vancouver.
" 29	26935	9	F. Wright "	0 25	" "
July 4	26938	10	W. T. Heddle, Nanaimo, B.C.....	0 25	A. McMillan, Denman Island, B.C.
" 6	26951	11	Victoria Co-operative Assn., Ltd., Yates St., Victoria, B.C.	0 30	Victoria Creamery, Victoria.
" 6	26952	12	Fred. Carne, cor. Yates & Broadway, Victoria.	0 25	" "
" 6	26958	13	G. W. Robinson, Douglas St., Victoria.	0 25	The Cowichwan Creamery, Victoria, B.C.
" 6	26960	14	The Saunders Grocery Co., Ltd., Johnston St., Victoria, B.C.	0 25	Comox Creamery Assn., Courtney, B.C.
" 7	26962	15	West End Grocery Co., Ltd., Govt. St., Victoria.	0 25	Albermi Creamery Assn., Albermi, B.C.
" 7	26963	16	The Windsor Grocery Co., Govt. St., Victoria.	0 30	The Delta Creamery Co., Ltd., Ladner, B.C.
" 5	26944	17	Geo. Bevilcockway, Nanaimo	0 30	The Nanaimo Creamery Assn., Ltd., Nanaimo, B.C.
Aug. 18	28015	18	Foran Bros., Vancouver.....	0 15	Chiliwack Creamery.
" 18	28017	19	Geo. Wagg "	0 20	A. McCollough, Montreal.
" 18	28021	20	W. Clark "	0 30	Eden Bank Creamery.

TABLE II.—DOMESTIC BUTTER—JULY, 1905.

District.	Serial Number.	Collector's Number	Water.	Non-fat Solids.	Fat.	Sodium Chloride.	Borax or Boracic Acid.	REFRACTOMETER.		Curd.
								Normal.	Found.	
Quebec	1	27537	p.c. 10.16	p.c. 7.10	p.c. 82.74	p.c. 3.56	None...	48.1	48.5	p.c. 3.54
	2	27538	9.64	5.60	84.76	3.40	"	46.6	47.8	2.20
	3	27539	9.10	6.20	84.70	4.25	"	46.9	46.9	1.95
	4	27540	11.90	3.70	84.40	2.29	"	47.8	47.9	1.41
	5	27541	6.06	3.80	90.14	2.29	"	48.0	48.0	1.51
	6	27542	7.08	3.70	89.22	1.92	"	48.3	48.9	1.78
	7	27543	11.78	3.08	85.14	2.16	"	46.8	48.0	0.92
	8	27544	13.12	4.18	82.70	2.80	"	47.1	47.0	1.38
	9	27532	7.96	2.08	89.96	1.14	"	47.1	46.9	0.94
	10	27533	6.76	6.90	86.34	3.14	"	45.8	45.0	3.76
	11	27534	9.48	5.70	84.82	4.40	"	46.5	46.1	1.30
	12	27525	14.56	4.20	81.24	3.40	"	48.7	48.0	0.80
	13	27526	9.24	3.70	87.06	3.14	"	48.2	48.0	0.56
	14	27527	8.76	5.14	86.10	2.59	"	47.0	47.0	2.55
	15	27536	5.72	6.20	88.08	2.89	"	46.2	46.0	3.31
	16	27535	12.22	4.24	83.54	2.54	"	47.8	47.5	1.70
	17	27528	8.66	4.48	86.86	3.65	"	47.6	47.0	0.83
	18	27529	8.54	4.90	86.56	2.55	"	47.8	46.7	2.35
	19	27530	12.46	4.00	83.54	2.55	"	46.0	46.0	1.45
	20	27531	14.20	4.80	81.00	2.04	"	45.3	45.0	2.76
St. Hyacinthe.....	1	24741	13.30	4.88	81.82	2.72	"	46.5	46.2	2.16
	2	24742	11.28	3.68	85.04	1.86	"	47.3	47.0	1.82
	3	24743	8.80	5.71	85.49	4.50	"	47.1	47.0	1.21
	4	24744	11.70	3.70	84.60	2.10	"	47.1	47.2	1.60
	5	24745	8.40	4.10	87.50	2.80	"	48.0	47.9	1.30
	6	24746	8.50	3.20	88.30	1.70	"	47.7	47.6	1.50
	7	24747	13.00	4.10	82.90	2.10	"	47.2	47.4	2.00
	8	24728	6.20	2.90	91.90	2.46	"	46.7	46.0	0.44
	9	24729	7.90	3.38	88.72	2.30	"	49.0	50.0	1.08
	10	24730	10.00	3.20	86.80	2.46	"	46.9	46.0	0.74
	11	24731	9.74	4.42	85.84	3.38	"	47.2	47.0	1.04
	12	24732	7.34	4.50	88.16	3.30	"	49.0	50.0	1.20
	13	24733	11.00	4.00	85.00	3.31	"	47.1	47.2	0.69
	14	24734	18.16	3.24	78.60	2.55	"	47.2	47.2	0.69
	15	24735	10.32	3.00	86.68	2.21	"	47.3	47.0	0.79
	16	24736	12.40	4.70	82.90	4.59	"	47.4	47.0	0.11
	17	24737	13.20	4.10	82.70	2.90	"	47.4	47.1	1.20
	18	24738	8.50	6.42	85.08	4.82	"	46.3	46.0	1.60
	19	24739	8.28	4.22	87.50	2.90	"	46.7	46.8	1.34
	20	24740	12.04	6.40	81.56	3.48	"	47.0	47.2	2.92
Montreal	1	26644	13.12	9.50	77.38	6.46	"	46.2	46.0	3.04
	2	26645	9.16	4.88	85.96	3.65	"	47.6	47.6	1.23
	3	26646	11.36	7.90	80.74	7.02	"	46.8	46.0	0.88
	4	26647	15.06	5.56	79.38	3.31	"	46.0	46.0	2.25
	5	26648	13.54	6.34	80.12	2.26	"	46.8	46.5	4.08
	6	26649	9.96	6.06	83.98	4.84	"	43.3	43.0	1.22
	7	26650	6.76	2.74	90.50	1.12	"	48.5	48.5	1.62
	8	26651	9.84	3.44	86.72	2.26	"	47.5	46.6	1.18
	9	26652	10.40	5.64	83.96	3.74	"	44.8	44.5	1.90
	10	26653	9.84	6.30	83.86	2.89	"	47.0	46.2	3.41
	11	26654	9.96	5.80	84.24	3.74	"	45.5	45.5	2.06
	12	26655	11.44	7.50	81.06	2.26	"	47.0	47.1	5.24
	13	26656	8.60	5.36	86.04	3.40	"	46.5	46.5	1.96
	14	26657	9.14	7.34	83.52	4.10	"	47.0	46.8	3.24
	15	26658	13.20	6.20	80.60	3.63	"	46.3	46.3	2.57
	16	26659	14.06	4.16	81.78	1.70	"	46.1	45.9	2.46
	17	26660	8.50	6.70	84.80	4.33	"	46.2	46.0	2.37
	18	26661	14.68	6.00	79.32	1.64	Borax.	46.2	46.0	*4.36
	19	26662	10.72	4.60	84.68	2.72	None	46.7	46.5	1.88
	20	26663	5.46	4.04	90.50	1.79	"	47.0	46.2	2.25
Kingston	1	25472	3.68	3.58	92.74	2.85	"	48.5	48.0	0.73
	2	25473	8.64	3.30	87.96	2.15	"	48.5	48.0	1.15
	3	25474	7.12	3.12	89.76	2.63	"	49.5	49.5	0.49
	4	25475	7.48	2.94	89.58	2.09	"	48.3	48.0	0.85

*Borax included with curd.

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TABLE II--DOMESTIC BUTTER--JULY, 1905--Continued.

District.	Serial Number.	Collector's Number	Water.	Non-fat Solids.	Fat.	Sodium Chloride.	Borax or Boracic Acid.	REFRACTOMETER.		Curd.
								Normal.	Found.	
			p.c.	p.c.	p.c.	p.c.				p.c.
Kingston--Con	5	24851	11.08	4.00	84.92	2.12	None...	46.8	46.8	1.88
	6	25477	11.22	4.82	83.96	3.23	" ..	45.6	45.6	1.59
	7	25478	7.80	9.60	82.60	8.50	" ..	45.2	45.7	1.10
	8	25479	8.86	4.10	87.04	2.12	" ..	46.2	46.0	1.98
	9	25480	10.68	2.92	86.40	2.72	" ..	46.7	46.5	0.20
	10	25481	9.68	3.80	86.52	3.11	" ..	47.0	47.0	0.69
	11	25487	12.08	8.14	79.78	4.20	" ..	46.7	46.5	3.94
	12	25488	13.36	6.92	79.72	4.00	" ..	46.4	46.1	2.92
	13	25489	15.34	3.72	80.94	1.56	" ..	47.5	47.1	2.16
	14	25490	11.18	1.96	86.86	1.03	" ..	47.1	46.7	0.93
	15	25491	11.40	3.80	84.80	2.51	" ..	47.2	47.0	1.29
	16	25482	13.40	4.26	82.34	3.13	" ..	47.4	47.5	1.13
	17	25483	8.64	5.64	85.72	4.25	" ..	48.8	48.8	1.39
	18	25484	12.14	4.40	83.46	1.87	" ..	47.3	46.5	2.53
	19	25485	10.52	7.36	82.12	4.59	" ..	46.0	46.5	2.77
	20	25486	8.44	4.50	87.06	3.14	" ..	49.8	49.8	1.36
Toronto.....	1	24840	8.68	4.80	86.52	4.25	" ..	49.5	50.0	0.55
	2	24841	9.06	4.80	86.14	2.63	" ..	47.4	47.8	2.17
	3	24842	10.00	6.34	83.66	4.67	" ..	47.6	47.0	1.67
	4	24843	9.64	4.00	86.36	2.29	" ..	46.4	47.0	1.71
	5	24844	10.06	6.82	83.12	5.61	" ..	46.4	46.0	1.21
	6	24845	10.00	4.00	86.00	3.03	" ..	46.4	46.0	0.97
	7	24846	13.68	4.04	82.28	3.11	" ..	46.4	47.0	0.93
	8	24847	9.76	7.29	83.04	4.93	" ..	48.3	49.6	2.27
	9	24848	11.14	5.00	83.86	1.87	" ..	46.4	46.0	3.13
	10	24849	10.28	4.64	83.08	3.58	" ..	45.3	45.0	1.06
	11	24850	9.16	6.48	84.36	5.69	" ..	44.6	44.0	0.79
	12	25476	7.40	4.00	88.60	2.38	" ..	45.0	44.9	1.62
	13	24852	8.96	5.60	85.44	2.97	" ..	49.0	49.0	2.63
	14	24853	10.24	4.28	85.48	3.23	" ..	49.1	48.8	1.05
	15	24854	11.00	3.68	85.32	2.28	" ..	49.8	49.0	1.40
	16	24855	8.80	6.34	84.86	5.52	" ..	48.8	48.5	0.82
	17	24856	13.16	5.20	81.64	4.81	" ..	48.0	48.0	0.39
	18	24857	9.40	7.18	83.42	2.46	" ..	48.4	48.0	4.72
	19	24858	10.42	4.00	85.58	2.46	" ..	48.0	48.5	1.54
London	20	24859	8.86	4.36	86.78	3.82	" ..	47.0	47.0	0.54
	1	22300	9.74	2.80	87.46	1.87	" ..	49.7	49.0	0.93
	2	22305	8.26	2.10	89.64	1.87	" ..	49.4	49.0	0.23
	3	22302	4.78	3.26	91.96	1.98	" ..	47.4	47.0	1.28
	4	22297	9.44	4.80	85.76	4.50	" ..	49.8	49.0	0.30
	5	22310	11.68	5.60	82.72	4.76	" ..	48.7	48.0	0.84
	6	22313	8.20	4.60	87.20	2.55	" ..	47.8	48.5	2.05
	7	22318	4.96	3.40	91.64	2.38	" ..	47.3	46.0	1.02
	8	22321	6.36	7.34	86.30	6.80	" ..	48.7	48.5	0.54
	9	22323	5.62	4.00	90.38	3.33	" ..	47.3	47.0	0.67
	10	22327	3.94	4.44	91.62	3.87	" ..	46.4	44.9	0.57
	11	22334	6.08	3.70	90.22	1.62	" ..	48.0	48.0	2.08
	12	22342	5.96	3.62	90.42	1.45	" ..	48.4	48.0	2.17
	13	22345	6.44	4.00	89.56	1.70	" ..	48.2	48.0	2.30
	14	22347	8.88	4.14	86.98	2.12	" ..	48.6	48.0	2.02
	15	22351	7.78	4.76	87.46	2.97	" ..	46.4	45.5	1.79
	16	22354	9.56	5.84	84.60	2.89	" ..	44.0	42.9	2.95
	17	22356	9.72	10.44	79.84	9.01	" ..	48.7	49.0	1.43
	18	22359	9.20	5.76	85.04	5.01	" ..	46.8	46.5	0.75
Winnipeg.....	19	22363	9.56	4.40	86.04	3.14	" ..	45.0	45.0	1.26
	20	22365	8.76	5.72	85.52	4.16	" ..	45.4	45.0	1.56
	1	25524	7.86	5.40	86.74	3.38	" ..	49.0	48.8	2.02
	2	25528	11.82	4.70	83.48	1.86	" ..	48.8	48.5	2.84
	3	25529	5.32	9.16	85.52	7.62	" ..	49.4	49.1	1.54
	4	25533	9.90	6.94	83.16	5.02	" ..	48.5	48.0	1.92
	5	25534	6.82	3.50	89.68	1.74	" ..	46.6	46.1	1.76
	6	25535	10.56	4.00	85.44	1.24	" ..	44.8	43.5	2.76
	7	25537	7.40	2.80	89.80	1.68	" ..	48.2	47.5	1.12
	8	25539	11.96	2.60	85.44	1.40	" ..	49.4	49.1	1.20
	9	25541	8.10	10.90	81.00	9.10	" ..	46.9	46.5	1.80

TABLE II.—DOMESTIC BUTTER—JULY, 1905—*Concluded.*

District.	Serial Number.	Collector's Number	Water.	Non-fat Solids.	Fat.	Sodium Chlo-ride.	Borax or Boracic Acid.	REFRACTOMETER.		Curd.
								Normal.	Found.	
			p.c.	p.c.	p.c.	p.c.				p.c.
Winnipeg— <i>Con.</i>	10	25542	8.28	3.72	88.60	1.93	None...	47.1	46.9	1.79
	11	25544	9.92	4.20	85.88	2.08	"	46.5	46.7	2.12
	12	25545	9.56	4.80	85.64	4.56	"	47.5	47.0	0.24
	13	25546	9.78	3.76	86.46	2.96	"	45.5	45.1	0.80
	14	25547	7.40	5.40	87.20	5.18	"	47.5	48.0	0.22
	15	25548	8.48	3.22	87.30	2.08	"	46.8	46.1	1.14
	16	25549	8.78	5.18	86.04	3.02	"	46.3	45.6	2.16
	17	25550	9.32	3.00	87.68	1.80	"	46.4	46.2	1.20
	18	25551	14.20	1.48	84.32	1.00	"	45.8	44.8	0.48
	19	25552	9.96	2.88	87.16	1.62	"	46.5	46.2	1.26
	20	25553	6.74	3.58	89.68	2.30	"	47.3	47.0	1.28
Calgary.....	1	21800	7.30	4.76	87.94	1.87	"	45.3	45.1	2.89
	2	21801	7.64	5.58	87.68	3.44	"	47.7	47.5	2.14
	3	21812	12.20	3.68	84.12	1.95	"	45.0	44.5	1.73
	4	21817	9.36	4.20	86.44	2.89	"	46.2	45.2	1.31
	5	21819	8.06	3.00	88.94	1.44	"	45.8	45.0	1.56
	6	21821	7.98	3.58	88.44	2.04	"	46.5	46.0	1.54
	7	21824	9.66	3.40	86.94	1.24	"	46.3	45.7	2.16
	8	21828	11.92	2.48	85.60	1.36	"	46.5	46.0	1.12
	9	21832	8.96	3.66	87.38	1.54	"	47.5	47.0	2.12
	10	21838	8.30	4.46	87.24	2.29	"	46.4	46.1	2.17
	11	21843	8.88	3.98	87.14	2.97	"	46.9	46.5	1.01
	12	21848	7.38	4.30	88.32	3.31	"	48.5	47.5	0.99
	13	21853	5.46	6.00	88.54	3.82	"	46.7	46.0	2.18
	14	21855	7.74	2.34	89.92	1.36	"	46.3	45.0	0.98
	15	21856	8.15	3.44	88.41	2.89	"	46.8	46.3	0.55
	16	21860	10.76	8.03	81.16	5.46	"	47.9	47.8	2.62
	17	21865	10.20	4.98	84.82	2.68	"	47.5	47.5	2.30
	18	21870	11.08	3.70	85.22	1.64	"	47.6	47.3	2.06
	19	21872	8.10	2.58	89.32	0.78	"	46.0	46.7	1.80
	20	21875	12.06	3.76	84.18	1.72	"	47.4	47.0	2.04
British Columbia.	1	26913	8.88	4.68	86.44	2.98	"	48.9	48.0	1.70
	2	26914	12.56	3.60	83.84	2.21	"	48.4	48.0	1.39
	3	26915	5.80	3.22	90.98	1.36	"	47.6	46.8	1.86
	4	26918	5.85	2.68	91.47	1.46	"	46.8	46.0	1.22
	5	26922	7.56	3.36	89.08	1.36	"	50.1	49.0	2.00
	6	26924	6.78	2.20	91.02	1.19	"	48.5	48.7	1.01
	7	26927	8.67	3.34	87.99	1.62	"	48.3	47.0	1.72
	8	26932	7.02	4.28	88.70	2.80	"	49.0	48.0	1.48
	9	26935	5.41	4.66	89.90	2.63	"	48.4	48.2	2.03
	10	26938	8.60	3.22	88.18	1.45	"	46.0	46.0	1.77
	11	26951	8.76	4.94	86.30	1.70	"	44.9	44.0	3.24
	12	26952	9.50	3.86	86.64	1.45	"	44.0	44.0	2.41
	13	26958	10.72	4.28	85.00	1.53	"	47.4	47.0	2.75
	14	26960	7.68	4.78	87.54	2.38	"	46.5	46.0	2.40
	15	26962	11.12	4.80	84.08	2.12	"	47.8	47.0	2.68
	16	26963	10.92	5.68	83.40	1.95	"	48.0	47.0	3.73
	17	26944	7.70	5.46	86.84	2.38	"	44.5	44.0	3.08
	18	28015	8.66	2.42	88.92	1.80	"	46.6	46.0	0.62
	19	28017	13.34	2.28	84.38	1.82	"	47.1	47.0	0.96
	20	28021	9.22	2.42	88.36	1.64	"	46.5	47.0	0.78

APPENDIX C.

BULLETIN No. 108.—VINEGAR.

OTTAWA, ONT., September 15, 1905.

W. J. GERALD, Esq.

Deputy Minister of Inland Revenue.

DEAR SIR,—I beg to submit you, herewith, a report upon 242 samples of vinegar, collected throughout the Dominion in July of this year, in accordance with your instructions.

The first object had in view in the present examination was the question of metallic impurity. Iron is a normal component of vinegars, particularly of dark coloured vinegars, and it is moreover, quite harmless, so that the more or less distinct traces of iron noted by the analyst may be ignored. The only metals found in these samples, and having objectionable qualities from the standpoint of wholesomeness, are *lead* and *zinc*. These metals have been found, in minute traces, in 14 samples as follows :—

Traces of lead.....	in 12 samples.
" zinc.....	" 2 "

In no case has the quantity present been large enough to constitute adulteration, or to give any ground for alarm as regards wholesomeness.

Dr. Donald finds notable amounts of sulphates and chlorides in the following samples :—

21826	contains 2·22 p.c. acetic acid.
21874.....	" 7·68 " "
21798.....	" 5·40 " "
23984.....	" 6·60 " "
27554.....	" 9·15 " "
24541.....	" 5·16 " "

and he suggests that these substances may be due to the water used in their manufacture, or to crude acetic acid added to the vinegars in question. Many natural waters contain sufficiently high sulphates and chlorides to account for the presence of these substances in vinegar made with their use.

Dr. Donald's second suggestion is worthy of consideration, and its probability receives some support from a study of the acetic acid percentage present in these samples. This varies from as low as 2·22 to as high as 9·15 per cent. The wide variation of acetic acid strength in the vinegars of this collection, goes far to support the suspicion that many of them are mere dilutions of acetic acid.

We have no recognized acetic acid strength for genuine vinegar. The British Pharmacopœia of 1885 defined vinegar as containing 5·41 per cent of acetic acid. The last edition of the Pharmacopœia (1898) omits any official definition of the article. Proof vinegar of the Inland Revenue contains 6 per cent of acetic anhydride, equivalent to 7·06 per cent of acetic acid. Commercial vinegar, made by fermentation and acetification of saccharine liquids, or by direct acetification of dilute alcohol, seldom contains

7 per cent of acetic acid. In support of this assertion I may quote from ‘Konig’ (Zusammensetzung der menschlichen Nahr. & Genussmittel, 1903).

Mean of 17 samples Wine—Vinegars.....				5·07	p.c.	acetic acid.
"	13	"	"	6·56	"	"
"	22	"	Malt	4·46	"	"
"	4	"	Cider	6·19	"	"

The last report on vinegars issued from this Laboratory, gave the analysis of 93 samples, (see Bull. 35 —1893) and these were found to contain from 2·86 p.c. to 7·99 per cent of acetic acid, the averages being as follows :—

Districts.	Sample.	Mean Acetic Acid.
		p. c.
Nova Scotia	19	4·01
Quebec.....	23	6·11
Ontario	39	5·32
Manitoba	12	5·09
	93	.....

Average for the Dominion=5·13 p. c. acetic acid.

A similar tabulation of the 242 samples now reported, shows the following :—

Districts.	Sample.	Mean Acetic Acid.
		p. c.
Nova Scotia	20	4·42
New Brunswick	20	5·02
Prince Edward Island	20	5·02
Quebec	20	6·67
St. Hyacinthe	20	5·91
Montreal	20	5·72
Kingston.....	20	5·18
Toronto	20	4·76
London	20	5·06
Manitoba	20	6·60
Calgary.....	20	7·19
British Columbia	22	6·40
Dominion	242	5·66

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It appears from this tabulation that the mean strength of vinegar as sold in Canada in 1905, is distinctly higher than in 1893. The change is, however, more marked if comparison be made as in the following table :—

District.	Below 3 p. c.	From 3 to 4 p. c.	From 4 to 5 p. c.	From 5 to 6 p. c.	From 6 to 7 p. c.	Above 7 p. c.	Remarks.
1893.							p. c.
Nova Scotia.....	1	10	6	1	1	0	
Quebec.....	1	1	0	11	7	3	7·41, 7·80, 11 14.
Ontario.....	0	2	14	16	5	2	7·99, 7·27.
Manitoba.....	0	3	3	4	0	2	7·96, 7·42.
1905.							
Nova Scotia	2	7	6	3	1	1	8·30.
New Brunswick.....	1	5	6	1	5	2	7·50, 7·04.
Prince Edward Island	0	7	4	5	1	3	7·98, 9·72, 7·07.
Quebec.....	0	0	0	6	9	5	9·04, 7·40, 9·15, 9·26, 7·07.
St. Hyacinthe.	0	0	6	3	8	3	7·20, 7·92, 7·30.
Montreal..	0	0	4	9	6	1	7·74.
Province of Quebec.	0	0	10	18	23	9	
Kingston..	0	0	10	7	2	1	7·68.
Toronto.....	2	1	8	8	1	0	
London.	0	2	9	7	1	1	9·20.
Province of Ontario	2	3	27	22	4	2	
Manitoba.....	0	0	8	3	3	6	12·60, 10·80, 10·92, 8·88, 7·82, 7·60.
Calgary.	1	1	2	6	1	9	9·69, 8·94, 10·38, 9·93, 11·04, 10·56, 11·97, 7·68, 9·48.
British Columbia.....	1	1	8	4	0	8	9·78, 9·71, 9·30, 10·86, 9·77, 9·06, 9·00, 10·56.

A study of this table shows that, by provinces, the percentage of samples of vinegar containing more than 7 per cent of acetic acid, is as follows :—

Nova Scotia.....	5 p. c.	Ontario.....	3 p. c.
New Brunswick.....	10 p. c.	Manitoba.....	30 p. c.
Prince Edward Island	15 p. c.	North-west Territories	45 p. c.
Quebec.....	15 p. c.	British Columbia.....	37 p. c.

It is apparent that by far the larger number of highly acid vinegars are sold in the provinces of Manitoba, British Columbia and the North-west Territories. It is known that a substance sold as concentrated vinegar, or some equivalent name, finds a market in the west. A sample of this article (see file 90457) was examined in this laboratory in May of this year, and was found to contain 55·2 per cent of acetic acid. In reporting on this article Mr. Macfarlane says : ‘ I am of opinion that this sample is a preparation from concentrated acetic acid, and that it would give, on dilution, a factitious vinegar, which it would be impossible to distinguish from the genuine article.’ It seems to me quite probable that the samples giving such abnormally high acid strength are made from

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this or similar concentrates, if not, then acetic acid has been added to a normal vinegar in order to give it the acid value found.

In the absence of a standard for acetic acid strength, I am unable to pronounce any opinion upon the samples, in this regard. I have, however, considered it as beyond cavil, that samples containing less than 3 per cent of acetic acid are objectionable, as being too weak; while such as contain more than 8 per cent are probably fortified by addition of acetic acid, and therefore factitious.

Where the name of no analyst is given, the work has been done in this laboratory. I would respectfully recommend that this report be published as Bulletin 108.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,
Acting Chief Analyst.

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TABLE I.—INSPECTION OF VINEGAR—JULY, 1905.

Date of Collection.	Collector's Number.	Serial Number.	Name and Address of Vendor.	Cost per qt.	Remarks.
<i>District of Nova Scotia—R. J. Waugh, Inspector.</i>				\$ cts.	
July 13	27003	1	De Wolf & Lamont, Kentville, N.S.....	0 08	
" 13	27005	2	Wm. Smith "	0 10	
" 14	27006	3	S. L. Cross "	0 10	
" 14	27010	4	B. H. Dodge "	0 10	
" 14	27013	5	R. E. Harris, Wolfville.. ..	0 10	
" 14	27016	6	T. L. Harvey "	0 10	
" 15	27018	7	Wentworth Stores, Windsor, N.S.....	0 10	
" 15	27019	8	John Lynch & Sons "	0 10	
" 15	27022	9	John Riley "	0 10	
" 15	27024	10	Shoud Bros. "	0 10	
" 18	27026	11	H. C. Barnaby & Sons, Bridgewater....	0 10	
" 18	27029	12	D. McKay, Bridgewater	0 10	
" 19	27032	13	J. B. Holden, Lunenburg, N.S	0 10	
" 19	27037	14	A. Cossmann, Newton, N.S.....	0 10	
" 21	27040	15	Walker & Honson, Truro, N.S....	0 10	
" 21	27042	16	W. H. Snook & Co. "	0 10	
" 21	27045	17	Ryan Bros. "	0 10	
" 25	27051	18	Brown & Webb, Halifax ..	0 10	
" 26	27055	19	Simpson Bros., Ltd. "	0 10	
" 26	27057	20	H. W. Wentzall "	0 10	
<i>District of New Brunswick—J. C. Ferguson, Inspector.</i>					
June 26	24016	1	Excelsior Vinegar Co., Ltd., St. John, N.B..	0 20	
" 27	24017	2	Thos. McCready & Son, Ltd. "	0 20	
" 27	24020	3	Excelsior Vinegar Co., Ltd. "	0 20	
" 27	24021	4	" " "	0 20	
" 30	24030	5	Geo. A. Troop & Co., Ltd., 284 Pitt St., St. John, N.B.....	0 20	
July 5	24037	6	William Baxter, 73 Pitt St., St. John, N.B.....	0 30	
" 6	24038	7	John H. Walker, 149 King E. "	0 20	
" 7	24042	8	Geo. G. Kierstead, 641 Main St. "	0 20	
" 10	24044	9	Joshua E. Cowan, North End, 99 Main St., St. John, N.B.....	0 10	
" 10	24045	10	Day & Crabb, 171 Mill St., St. John, N.B.	0 20	
" 11	24047	11	A. E. Trentowski, 51 & 53 Cobourg St, St. John, N.B.	0 10	
Aug. 22	24074	12	W. B. McKay & Co., Main St., Sussex, K.C., N.B	0 20	
" 23	24077	13	Stanley C. Goggin, Main St., Petticodiac, Westmoreland Co., N.B.	0 20	
" 25	24083	14	R. A. McLean, 293 Main St., Moncton, N.B....	0 20	
" 25	24084	15	Cassidy & Belliveau, Main St. "	0 20	
" 25	24085	16	H. T. Brewster "	0 20	
" 25	24086	17	J. T. Ryan "	0 20	
" 28	24092	18	Holdengraber & Rosenberg, cor. St. George and King Sts., Bathurst, N.B.....	0 10	
" 29	24096	19	Miller Bros., Castle St., Newcastle, N.B.....	0 20	
" 30	24100	20	E. A. Strang, Castle St., Chatham, Northumberland Co., N.B	0 10	
<i>District of Prince Edward Island—T. Moore, Inspector.</i>					
June 27	24435	1	Sterns & Son, Souris.....	0 10	
" 27	24437	2	A. Currie "	0 10	
" 27	24441	3	Matthew & McLean, Souris.....	0 16	
" 27	24443	4	Sterns Bros. "	0 20	
" 28	24447	5	John McKenna, Charlottetown.....	0 12	
" 28	24451	6	R. F. Maddigan "	0 10	
" 28	24455	7	Sanderson & Co. "	0 16	
" 28	24459	8	Jenkins & Son "	0 12	
" 28	24462	9	A. Gates & Co. "	0 10	
" 28	24465	10	Beer & Goff "	0 12	

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TABLE I.—INSPECTION OF VINEGAR—JULY, 1905—*Continued.*

Date of Collection.	Collector's Number.	Serial Number.	Name and Address of Vendor.	Cost per qt.	Remarks.
<i>District of Prince Edward Island—T. Moore, Inspector—Concluded.</i>				\$ cts.	
July	5	24470	11 J. H. Myrick, Alberton.....	0 10	
"	5	24472	12 J. E. Birch "	0 10	
"	6	24474	13 R. T. Holman, Summerside.....	0 16	
"	6	24476	14 Brace & McKay "	0 20	
"	6	24479	15 Waugh & Steeves "	0 20	
"	6	24481	16 Sinclair & Stewart "	0 12	
"	6	24483	17 A. J. Grant, Mount Stewart....	0 12	
"	6	24485	18 W. W. Jenkins, Georgetown ..	0 10	
"	6	24488	19 John Knight "	0 20	
"	10	24493	20 Edmond Toombs, Charlottetown.....	0 10	
<i>District of Quebec—C. E. Roy, Inspector.</i>					
July	20	27548	1 J. O. Poliquin, Montmagny.....	0 12	
"	21	27549	2 Nap. Belanger "	0 18	
"	21	27550	3 J. G. Fournier "	0 14	
"	21	27551	4 A. Lemieux, L'Islet.....	0 12	
"	21	27552	5 Frs. Lavallée, St. Jean, Port Joli	0 14	
"	21	27553	6 A. Morin "	0 14	
"	21	27554	7 L. A. Paquette, Ste. Anne de la Pocatière.....	0 16	
"	22	27555	8 J. B. V. Chamberland, Rivière du Loup....	0 20	
"	22	27556	9 V. Deverst, Rivière du Loup....	0 16	
"	20	27545	10 A. Convey, 97 Sault du Matelot, Quebec.....	0 14	
"	20	27546	11 L. Mercier & Cie, 113-7 St. Paul "	0 20	
"	20	27547	12 J. A. Chabot, 271 St. Joseph "	0 20	
Aug.	10	27563	13 Mde. Anmt. Baril, Limoilou.....	0 20	
"	11	27564	14 Odias Letourneau, Rue Massue, St. Malo, Que...	0 12	
July	24	27557	15 J. A. Peltier, Chicoutimi..	0 30	
"	24	27558	16 Tessier & Petit "	0 15	
"	25	27559	17 Jos. Brassard, Roberval.	0 10	
"	25	27560	18 Oyamel & Cie "	0 16	
"	26	27561	19 V. Charrier & Cie, Levis.....	0 14	
"	27	27562	20 Nap. Lamontagne, Pt. Levis....	0 10	
<i>District of St. Hyacinthe—J. C. Rouleau, Inspector.</i>					
June	22	24532	1 E. J. Pearson, Richmond.....	0 14	
"	22	24533	2 H. C. Atkinson, Melbcurne..	0 10	
"	22	24534	3 Tobin & Chamberlain, Brampton Falls.....	0 12	
"	22	24535	4 L. O. Pepin & fils, Arthabaskaville.....	0 20	
"	23	24536	5 L. P. St. Pierre, Three Rivers.....	0 20	
"	23	24537	6 H. Rivard & Cie "	0 16	
"	23	24538	7 T. Bournival "	0 14	
"	23	24539	8 L. Bumelle & Freres "	0 16	
"	24	24540	9 Alfred Lavalee, Berthierville	0 12	
"	24	24541	10 W. Laplume "	0 20	
"	24	24542	11 L. H. Paquin, Sorel.	0 10	
"	26	24543	12 P. P. Lanoie, St. Aimé.....	0 10	
"	26	24544	13 M. L. Peloquin, "	0 16	
June	26	24545	14 Amedé Joyal, St. David, Yamaska	0 12	
"	26	24546	15 Geo. Beaulac, Sorel....	0 10	
"	26	24547	16 Ed. Collette, Verchères ..	0 14	
"	26	24548	17 H. Marchessault, St. Ours, Richelieu	0 16	
"	28	24549	18 Petit frères, St. Hyacinthe ..	0 14	
"	28	24550	19 J. N. Turcotte, Drummondville.....	0 16	
"	28	24551	20 E. O. Piché	0 14	

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TABLE I.—INSPECTION OF VINEGAR—JULY, 1905—Continued.

Date of Collection.	Collector's Number.	Serial Number.	Name and Address of Vendor.	Cost per qt.	Remarks.
District of Montreal—J. J. Costigan, Inspector.				\$ cts.	
July 11	26601	1	H. Desrochers, 7 Mountain St.....	0 14	
" 11	26602	2	D. Chevalier, 2265 Notre Dame St.....	0 10	
" 11	26603	3	S. Cardinal, 2307 ".....	0 14	
" 11	26604	4	C. Guindon, 2456 ".....	0 14	
" 11	26605	5	L. M. Soucy, 2500 ".....	0 14	
" 11	26606	6	Monpetit & Co. ".....	0 14	
" 12	26607	7	H. McLean, 695 Wellington St.....	0 12	
" 12	26608	8	" ".....	0 16	
" 12	26609	9	Thos. H. T. Stone, 627 ".....	0 20	
" 12	26610	10	" ".....	0 14	
" 12	26611	11	A. O. Galarneau, 624 ".....	0 14	
" 12	26612	12	" ".....	0 14	
" 12	26613	13	H. Donohoe & Co. 595 ".....	0 14	
" 12	26614	14	" ".....	0 20	
" 12	26615	15	J. A. Dionne, Congregation St.....	0 16	
" 12	26616	16	" ".....	0 14	
" 12	26617	17	E. Desrochers, 1482 St. Catherine.....	0 16	
" 12	26618	18	" ".....	0 10	
" 12	26619	19	P. Massicotte & Co., 1470 ".....	0 06	
" 12	26695	20	A. Desjardins, 1069 Demontigny.....	0 10	
District of Kingston—J. Hogan and A. E. Sanderson, Inspectors.					
June 23	25451	1	Rigney & Hickey, Princess St., Kingston....	0 14	
" 24	25452	2	W. H. McConkey, King St., Brockville....	0 10	
" 24	25453	3	" ".....	0 10	
" 24	25454	4	A. E. Shaver ".....	0 10	
" 24	25455	5	" ".....	0 10	
July 22	25456	6	Peter Connall & Son, George St., Peterboro....	0 14	
" 22	25457	7	" ".....	0 10	
" 22	25458	8	Henry & Co., George St. ".....	0 10	
" 22	25459	9	" ".....	0 10	
" 22	25460	10	E. G. MacKenzie, Charlotte St. ".....	0 10	
" 22	25461	11	" ".....	0 10	
Aug. 11	25468	12	J. E. Chevrier, Pitt St., Cornwall.....	0 10	
" 11	25469	13	J. G. Kilgow, 1st St. ".....	0 10	
" 11	25470	14	" ".....	0 14	
" 10	25462	15	J. Bradley, Main St., Prescott.....	0 10	
" 10	25463	16	McDermott & McCarthy ".....	0 10	
" 10	25464	17	" ".....	0 10	
" 10	25465	18	C. Whitney & Son, Main St., Prescott.....	0 10	
" 10	25466	19	" ".....	0 10	
" 10	25467	20	W. J. Bovaird ".....	0 10	
District of Toronto.					
July 18	24860	1	John Malcolm, 350 Spadina Ave.....	0 10	
" 18	24861	2	L. Kelly, 380 ".....	0 10	
" 18	24862	3	W. Moore & Son, 402 ".....	0 10	
" 18	24863	4	" ".....	0 10	
" 18	24864	5	M. Moyer & Son, 408 ".....	0 10	
" 18	24865	6	" ".....	0 10	
" 18	24866	7	Vair Produce Co., 468 ".....	0 10	
" 18	24867	8	" ".....	0 10	
" 18	24868	9	M. E. Bush & Co., 285 College St.....	0 10	
" 18	24869	10	" ".....	0 10	
" 19	24870	11	W. A. Sherwood, St. Paul St., St. Catherines...	0 10	
" 19	24871	12	" ".....	0 08	
" 19	24872	13	Edwin Moore, St. Paul St. ".....	0 10	
" 19	24873	14	" ".....	0 08	
" 20	24874	15	J. L. Brown, 47 McNab St., Hamilton.....	0 10	
" 20	24875	16	" ".....	0 10	
" 20	24876	17	Wm. Carroll, 72 James St. ".....	0 08	
" 20	24877	18	" ".....	0 08	

TABLE I.—INSPECTION OF VINEGAR—JULY, 1905 —Continued.

Date of Collec- tion.	Collector's Number.	Serial Number	Name and Address of Vendor.	Cost per qt.	Remarks.
District of Toronto—Concluded.				\$ cts.	
July 20	24878	19	J. McQuarie, 11 King William, Hamilton.....	0 10	
" 20	24879	20	" " "	0 20	
District of London—T. Kidd, Inspector.					
June 21	22294	1	A. Andrews, Seaforth	0 20	
" 22	22299	2	O. C. Whitily, Goderich	0 20	
" 22	22301	3	C. J. Moore, Mitchell.....	0 20	
" 22	22296	4	J. W. Irwin, Clinton, Ont.....	0 40	
" 26	22314	5	Pickard & Fleming, St. Mary's.....		
" 27	22315	6	A. Branston, 607 Richmond St., London	0 20	
" 27	22322	7	J. W. Kingswood, Ingersoll.....	0 20	
" 28	22325	8	Forbes, Whitelaw & Co., Woodstock....	0 20	
" 28	22329	9	Solman Allen, Norwich.....	0 20	
" 28	22333	10	C. W. Grantham, Brantford.....	0 20	
" 26	22308	11	C. McIlhargey, Stratford.....	0 40	
July 6	22336	12	Stubeng & Co., Berlin.....	0 20	
" 6	22341	13	George Hasanflug, Waterloo.....	0 20	
" 7	22346	14	J. A. McCrea, Guelph.....	0 20	
" 7	22348	15	C. Schlueter, Preston.....	0 20	
" 7	22350	16	Deans, Walker & Co., Galt.....	0 20	
" 10	22352	17	Adams & Co., Georgetown.....	0 20	
" 11	22357	18	M. E. Murphy, Alliston	0 20	
" 14	22366	19	R. H. Robinson, Orangeville.....	0 20	
" 14	22367	20	Steel Bros., Fergus... ..	0 20	
" 14	22368	21	James Paterson, Fergus.....	0 20	
District of Winnipeg—W. M. Conklin, Inspector.					
July 14	23980	1	Wm. Muir, Brandon	0 20	
" 14	23981	2	J. Bower & Co. "	0 20	
" 14	23982	3	A. Neilly "	0 10	
" 14	23983	4	J. C. Lewis & Son "	0 10	
" 14	23984	5	P. Polsky "	0 10	
" 15	23985	6	Whyte & Co., Moosomin.....	0 20	
" 15	23986	7	The R. D. McNaughton Co., Moosomin.....	0 20	
" 17	23987	8	J. D. Brooks & Son, Indian Head.....	0 20	
" 17	23988	9	W. M. Crawford "	0 20	
" 17	23989	10	The McCarthy Supply Co., Regina	0 20	
" 17	23990	11	Karl Boez, Regina... ..	0 20	
" 17	23991	12	A. Ehmann "	0 20	
" 18	23992	13	T. J. McCammon, Moose Jaw.....	0 20	
" 18	23994	14	McKenzie Bros. "	0 20	
" 3	23975	15	Hardy & Buchanan, Winnipeg.....	0 20	
" 3	23976	16	A. Macdonald "	0 10	
" 3	23977	17	Hartley & Co. "	0 20	
" 3	23978	18	W. B. Francis "	0 20	
" 3	23979	19	Matheson Bros. "	0 20	
" 3	25526	20	J. A. McKerchar "	0 20	
District of Calgary—W. Fletcher, Inspector.					
July 18	21798	1	Hatfield & McLarn, Calgary.....	0 30	
" 18	21802	2	Brown & Knight "	0 40	
" 21	21807	3	Canada Grocers Sta. Branch, Calgary.....	0 20	
" 21	21811	4	Codville, Smith Co. Sta. "	0 20	
" 22	21815	5	A. S. Cameron, Calgary.....	0 30	
" 25	21823	6	Star Trading Co., Wetaskiwin.. . . .	0 20	
" 25	21826	7	Compton & Montgomery "	0 20	
" 25	21829	8	N. W. Gould "	0 20	
" 25	21831	9	A. R. Dickson "	0 20	
" 25	21833	10	Seland & Mallett "	0 20	

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TABLE I.—INSPECTION OF VINEGAR—JULY, 1905—*Concluded.*

Date of Collection.	Collector's Number.	Serial Number.	Name and Address of Vendor.	Cost per qt.	Remarks.
<i>District of Calgary—W. Fletcher, Inspector—Con.</i>				\$ cts.	
July 27	21836	11	Hudson Bay Co., Edmonton.....	0 20	
" 27	21842	12	Revillon Bros. "	0 20	
" 27	21846	13	McDougall & Secord "	0 20	
" 27	21852	14	Williamson Bros. "	0 20	
" 27	21854	15	Joe Morris "	0 20	
" 28	21859	16	C. Sugarman, Strathcona.....	0 20	
" 28	21866	17	T. P. Malone "	0 20	
" 28	21871	18	Douglas Bros. "	0 20	
" 28	21874	19	A. H. Richards & Co., Strathcona.....	0 20	
" 28	21876	20	D. L. Ghormly & Co. "	0 20	
<i>District of British Columbia—E. B. Parkinson, Inspector.</i>					
June 27	26919	1	H. O. Lee, Vancouver.....	0 30	
" 27	26920	2	J. Smith "	0 20	
" 27	26921	3	" "	0 30	
" 28	26925	4	The City Grocery "	0 10	
" 28	26926	5	McCulloch Bros. "	0 20	
" 29	26933	6	T. S. Annandale, New Westminster.....	0 20	
" 29	26934	7	A. J. Sinclair "	0 20	
July 5	26941	8	The Co-operative Society Store, Nanaimo.....	0 30	
" 6	26945	9	R. Mowat, cor. Yates and Douglas sts., Victoria..	0 20	
" 6	26953	10	Fred. Crane, Victoria.....	0 20	
" 6	26959	11	Dixie H. Ross, Government, Victoria.....	0 20	
" 6	26961	12	W. A. Burt, Fort street "	0 20	
" 7	26964	13	W. J. Pendray "	0 20	
" 10	26971	14	H. Albert, Carral st., Vancouver.....	0 15	
June 29	26937	15	J. McLaggart "	0 20	
July 5	26942	16	Jas. Young, Nanaimo.....	0 20	
Aug. 18	28012	17	C. E. Turner, Vancouver.....	0 20	
" 18	28013	18	H. A. Edgett "	0 15	
" 18	28016	19	Geo. Wagg "	0 20	
" 18	28018	20	The Dominion Grocery, Vancouver.....	0 20	
" 18	28022	21	W. Clark, Vancouver.....	0 20	
" 18	28024	22	E. H. McMillan, Vancouver.....	0 20	

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TABLE II.—INSPECTION OF VINEGAR—JULY, 1905.

District.	Serial Number.	Collector's Number	Acidity as Acetic Acid $C_2H_4O_2$ per cent.	Metallic Impurity.	Physical Characters.	Analyst.	Remarks.
Nova Scotia.	1	27003	3.79	Iron trace..	Fungus	Fagan....	
	2	27005	4.32	" ..	Sound.	"	
	3	27006	4.10	" ..	"	"	
	4	27010	5.76	" ..	"	"	
	5	27013	1.56	" ..	Slight fungus...	"	Too low in acid
	6	27016	4.39	" ..	Sound.....	"	strength.
	7	27018	5.85	" ..	"	"	
	8	27019	3.28	" ..	"	"	
	9	27022	4.24	" ..	Fungus	"	
	10	27024	3.74	" ..	"	"	
	11	27026	4.68	" ..	Sound.....	"	
	12	27029	3.61	None....	"	Bowman..	
	13	27032	4.53	"	"	Fagan....	
	14	27037	3.84	"	Slight fungus...	"	
	15	27040	2.71	"	Sound.....	"	Too low in acidity.
	16	27042	3.60	"	"	"	
	17	27045	8.30	"	"	"	Probably factitious.
	18	27051	6.64	"	"	"	
	19	27055	5.04	Iron trace	"	"	
	20	27057	3.52	"	"	"	
New Brunswick.	1	24016	7.50	None....	"	Ellis	
	2	24017	6.75	"	"	Valade...	
	3	24020	5.37	"	"	"	
	4	24021	7.04	Trace iron..	"	"	
	5	24030	6.12	None.....	"	Bowman..	
	6	24037	4.86	"	"	Ellis	
	7	24038	3.62	"	"	Bowman..	
	8	24042	3.91	"	"	Valade...	
	9	24044	3.45	"	"	"	
	10	24045	6.65	"	"	Bowman..	
	11	24047	4.60	Trace iron..	"	Valade...	
	12	24074	4.38	None.....	"	"	
	13	24077	4.32	Trace lead..	"	"	
	14	24083	3.06	"	"	"	Too low in acidity.
	15	24084	3.96	None.	"	"	
	16	24085	6.54	Trace lead..	"	"	
	17	24086	4.68	None.	"	"	
	18	24092	6.30	"	"	"	
	19	24096	4.32	"	"	"	
	20	24100	2.88	Distinct trace lead.....	"	"	
P. E. Island....	1	24435	3.54	None.....	"	Ellis	
	2	24437	4.25	"	Slightly turbid..	Bowman..	
	3	24441	5.17	"	Sound.....	Valade...	
	4	24443	7.98	"	"	Ellis	Probably factitious.
	5	24447	5.06	"	"	Valade...	
	6	24451	3.42	"	"	Ellis	
	7	24455	5.41	"	"	Bowman..	
	8	24459	9.72	"	"	Ellis	
	9	24462	3.99	"	"	Valade...	
	10	24465	5.13	Traces.. . . .	Deposit.....	Donald...	
	11	24470	3.44	None	Sound.....	Bowman..	
	12	24472	3.27	"	"	"	
	13	24474	4.99	"	"	"	
	14	24476	3.07	"	"	"	Too low in acidity.
	15	24479	7.07	"	"	"	
	16	24481	4.40	"	Muddy... ..	"	
	17	24483	6.95	"	Sound... ..	Valade...	
	18	24485	3.40	"	"	Bowman..	
	19	24488	5.36	"	"	"	
	20	24493	4.77	"	"	"	
Quebec	1	27548	5.68	Trace iron.	"	Fagan....	
	2	27549	5.73	"	"	"	
	3	27550	6.31	"	"	"	
	4	27551	9.04	"	"	"	Probably factitious.
	5	27552	7.40	None.	"	Bowman.	

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TABLE II.—INSPECTION OF VINEGAR—JULY, 1905—*Continued.*

District.	Serial Number.	Collector's Number	Acidity as Acetic Acid $C_2H_4O_2$ per cent.	Metallic Impurity.	Physical Characters.	Analyst.	Remarks.
Quebec— <i>Con.</i>	6	27553	6.38	Trace iron..	Sound.....	Fagan...	Probably factitious.
	7	27554	9.15	None.....	Slight deposit..	Donald...	
	8	27555	6.61	".....	Sound.....	Bowman..	
	9	27556	6.45	Trace zinc..	".....	".....	
	10	27545	6.06	None.....	".....	Ellis.....	
	11	27546	5.34	Traces..	Somewhat turbid	Donald...	
	12	27547	6.78	None.....	Sound.....	Ellis.....	
	13	27563	6.12	".....	".....	".....	
	14	27564	5.82	Trace lead..	Slightly turbid..	".....	
	15	27557	5.88	None.....	Bad odour.....	Fagan....	
	16	27558	9.26	".....	Sound.....	".....	
	17	27559	6.40	".....	".....	".....	
	18	27560	5.52	".....	".....	".....	
	19	27561	6.45	".....	".....	".....	
	20	27562	7.07	".....	".....	Bowman..	
St. Hyacinthe ..	1	24532	6.80	".....	Slightly turbid..	Valin....	
	2	24533	4.86	".....	Some mother...	Donald...	
	3	24534	4.50	".....	Clear.....	Valin....	
	4	24535	6.90	".....	Sound.....	".....	
	5	24536	7.20	".....	".....	".....	
	6	24537	5.20	".....	".....	".....	
	7	24538	6.48	Trace.....	Slight turbidity.	Donald...	
	8	24539	6.42	".....	".....	".....	
	9	24540	6.70	None.....	".....	Valin....	
	10	24541	5.16	Trace.....	Very turbid...	Donald...	
	11	24542	4.77	".....	Turbid.....	".....	
	12	24543	7.92	".....	".....	".....	
	13	24544	6.10	None.....	Sound.....	Valin....	
	14	24545	4.92	Trace.....	".....	Donald...	
	15	24546	4.20	".....	".....	Valin....	
	16	24547	4.70	".....	".....	".....	
	17	24548	6.40	".....	".....	".....	
	18	24549	6.30	".....	".....	".....	
	19	24550	7.30	Trace.....	Sound.....	".....	
	20	24551	5.40	".....	".....	".....	
Montreal....	1	26601	5.52	None.....	".....	Ellis.....	
	2	26602	6.95	Trace iron..	".....	Valade...	
	3	26603	6.60	None.....	".....	Ellis.....	
	4	26604	7.74	".....	".....	".....	
	5	26605	6.12	Trace lead..	".....	".....	
	6	26606	6.12	None.....	Heavy deposit..	Donald...	
	7	26607	5.08	".....	Sound.....	Bowman..	
	8	26608	5.11	".....	".....	".....	
	9	26609	4.71	".....	".....	Valade...	
	10	26610	5.47	".....	".....	Bowman..	
	11	26611	4.43	Trace iron..	".....	Valade...	
	12	26612	5.52	None.....	".....	Ellis.....	
	13	26613	5.44	".....	".....	Bowman..	
	14	26614	4.62	".....	".....	Ellis....	
	15	26615	4.86	".....	".....	".....	
	16	26616	5.34	".....	".....	".....	
	17	26617	6.94	".....	".....	Bowman..	
	18	26618	5.82	".....	".....	Ellis.....	
	19	26619	5.09	".....	".....	Valade...	
	20	26695	6.90	".....	".....	Ellis.....	
Kingston.	1	25451	6.00	".....	".....	Bowman..	
	2	25452	5.54	".....	".....	Valade...	
	3	25453	6.76	".....	".....	Bowman..	
	4	25454	4.43	".....	".....	Valade...	
	5	25455	4.51	".....	".....	".....	
	6	25456	5.34	Trace iron..	".....	Fagan....	
	7	25457	5.16	None.....	".....	".....	
	8	25458	5.41	".....	".....	Bowman..	
	9	25459	4.34	".....	".....	Fagan....	
	10	25460	5.49	".....	Slight fungus...	".....	
	11	25461	5.13	".....	Sound.....	".....	
	12	25468	4.92	".....	".....	".....	

TABLE II.—INSPECTION OF VINEGAR—JULY, 1905—*Continued.*

District.	Serial Number.	Collector's Number	Acidity as Acetic Acid. $C_2H_4O_2$ per cent.	Metallic Impurity.	Physical Character.	Analyst.	Remarks.
Kingston— <i>Cont.</i>	13	25469	4.98	None.....	Sound.....		
	14	25470	7.68	".....	".....		
	15	25462	4.26	".....	".....		
	16	25463	4.38	Trace lead..	".....		
	17	25464	4.44	None.....	".....		
	18	25465	4.50	Trace lead..	".....		
	19	25466	5.46	None.....	Turbid.....		
Toronto.....	20	25467	4.92	Trace lead..	Sound.....		
	1	24860	4.37	Trace iron..	".....	Valade....	
	2	24861	5.49	None.....	".....	".....	
	3	24862	4.45	".....	".....	".....	
	4	24863	5.52	".....	".....	".....	
	5	24864	2.39	".....	".....	".....	Too low in acidity.
	6	24865	4.90	".....	".....	Bowman..	
	7	24866	5.66	".....	".....	Valade....	
	8	24867	5.00	".....	".....	".....	
	9	24868	4.97	Trace iron..	".....	".....	
	10	24869	4.80	" zinc..	".....	Bowman..	
	11	24870	4.98	None.....	".....	Ellis.....	
	12	24871	4.14	".....	".....	".....	
	13	24872	5.82	".....	".....	".....	
	14	24873	4.80	".....	".....	".....	
	15	24874	5.58	".....	".....	Bowman..	
	16	24875	3.58	".....	".....	".....	
	17	24876	5.35	".....	".....	".....	
	18	24877	5.52	".....	".....	Ellis.....	
	19	24878	1.92	".....	".....	".....	Too low in acidity.
London.....	20	24879	6.00	".....	".....	".....	
	1	22294	4.50	".....	".....	Valin....	
	2	22299	5.31	".....	Heavy deposit	Donald...	
	3	22301	4.70	".....	Sound.....	Valin....	
	4	22296	3.80	".....	".....	".....	
	5	22314	4.74	".....	".....	Valade....	
	6	22315	3.65	".....	".....	".....	
	7	22322	.....	.....	Sample missing..	.....	Broken in transit.
	8	22325	4.60	Trace lead..	Sound.....	Ellis.....	
	9	22329	9.20	".....	".....	".....	Probably factitious.
	10	22333	4.63	None.....	".....	Valade....	
	11	22308	5.80	".....	".....	Valin....	
	12	22336	5.41	".....	".....	Bowman..	
	13	22341	4.08	".....	".....	Valade....	
	14	22346	4.29	".....	".....	Bowman..	
	15	22348	6.34	".....	".....	".....	
	16	22350	5.34	".....	".....	Ellis.....	
	17	22352	5.33	".....	".....	Valade....	
	18	22357	4.45	".....	".....	".....	
	19	22366	5.40	".....	".....	".....	
Manitoba ..	20	22367	5.29	".....	".....	".....	
	21	22368	4.31	".....	".....	".....	
	1	23980	4.92	".....	".....	Ellis.....	
	2	23981	4.74	".....	".....	".....	
	3	23982	12.60	".....	".....	".....	Probably factitious.
	4	23983	4.62	".....	Slightly turbid..	Donald...	
	5	23984	6.60	".....	Deposit.....	".....	
	6	23985	4.80	".....	Sound.....	Ellis.....	
	7	23986	4.68	Trace.....	Slight deposit...	Donald...	
	8	23987	10.80	None.....	Sound.....	Ellis.....	
	9	23988	4.44	".....	Deposit.....	Donald...	
	10	23989	10.92	".....	Sound.....	".....	
	11	23990	4.74	Trace.....	".....	".....	
	12	23991	7.60	None.....	".....	Ellis.....	
	13	23992	8.88	".....	".....	Donald...	
	14	23974	7.82	Trace iron..	".....	Fagan....	
	15	23975	5.59	".....	".....	".....	
	16	23976	6.48	Trace iron..	".....	".....	

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TABLE II.—INSPECTION OF VINEGAR—JULY, 1905—*Concluded.*

District.	Serial Number.	Collector's Number	Acidity as Acetic Acid, $C_2H_4O_2$, per cent.	Metallic Impurity.	Physical Character.	Analyst.	Remarks.
Manitoba— <i>Con.</i>	17	23977	5.59	None.....	Sound.....	Fagan....	
	18	23978	5.42	Trace iron..	".....	".....	
	19	23979	6.06	None.....	".....	Bowman..	
	20	25526	4.80	".....	".....	Donald...	
Calgary	1	21798	5.40	".....	Slight deposit...	".....	
	2	21802	5.46	Trace.....	Turbid.....	".....	
	3	21807	5.49	".....	".....	".....	
	4	21811	9.69	".....	Sound.....	".....	Probably factitious.
	5	21815	3.87	None.....	A little 'mother' of vinegar.....	".....	
	6	21823	8.94	".....	Sound.....	".....	
	7	21826	2.22	".....	".....	".....	Too low acidity.
	8	21829	6.42	".....	".....	".....	
	9	21831	4.32	".....	".....	".....	
	10	21833	10.38	".....	".....	".....	Probably factitious.
	11	21836	5.19	Trace.....	'Mother of vinegar' ferment..	".....	
Br. Columbia...	12	21842	5.25	".....	".....	".....	
	13	21846	5.73	None.....	Sound.....	".....	
	14	21852	9.93	".....	".....	".....	"
	15	21854	11.04	".....	".....	".....	"
	16	21859	10.56	".....	".....	".....	"
	17	21866	4.83	".....	".....	".....	
	18	21871	11.97	".....	".....	".....	"
	19	21874	7.68	".....	".....	".....	
	20	21876	9.48	".....	".....	".....	"
	1	26919	9.78	".....	".....	Ellis.....	"
	2	26920	5.28	".....	".....	".....	
	3	26921	9.71	Trace iron..	".....	Valade....	"
	4	26925	9.30	None.....	".....	Ellis.....	"
	5	26926	10.86	".....	".....	".....	"
	6	26933	5.04	".....	".....	".....	
	7	26943	4.32	".....	".....	".....	
	8	26941	9.77	".....	".....	Valade....	"
	9	26945	5.44	".....	".....	Bowman..	
	10	26953	2.55	Trace lead..	Muddy.....	".....	Too low acidity.
	11	26959	4.97	None.....	Sound.....	".....	
	12	26961	3.71	".....	".....	Valade....	
	13	26964	4.01	".....	Muddy.....	Bowman..	
	14	26971	4.17	".....	Sound.....	Valade....	
	15	26937	4.57	".....	".....	".....	
	16	26942	5.23	".....	".....	".....	
	17	28012	9.06	".....	".....	".....	Probably factitious.
	18	28013	4.26	".....	".....	".....	
	19	28016	9.00	".....	".....	".....	"
	20	28018	4.32	".....	".....	".....	
	21	28022	10.56	".....	".....	".....	"
	22	28024	4.80	".....	".....	".....	

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APPENDIX D.**BULLETIN No. 109.—CREAM OF TARTAR.**

OTTAWA, ONT., September, 19, 1905.

W. J. GERALD, Esq.,

Deputy Minister of Inland Revenue Department.

SIR—I have the honour to report upon 180 samples of Cream of Tartar, collected throughout the Dominion of Canada, in July and August of this year, in accordance with your instructions. Fifteen samples were collected in each inspectoral district. 148 samples have been worked by the District Analysts, the remainder in this laboratory.

The subjoined synoptical table gives the results of analysis :—

District.	Genuine.	Adulterated.	Doubtful.	Total.
Nova Scotia.....	13	1	1	15
New Brunswick.....	14	0	1	15
Prince Edward Island.....	14	0	1	15
Quebec.....	6	7	2	15
St. Hyacinthe.....	8	6	1	15
Montreal.....	10	3	2	15
Kingston.....	8	6	1	15
Toronto.....	12	3	0	15
London.....	10	2	3	15
Manitoba.....	11	3	1	15
Northwest Territories.....	14	1	0	15
British Columbia.....	12	2	1	15
Total.....	132	34	14	180
Genuine.....	73	per cent.		
Adulterated.....	19	"		
Doubtful.....	8	"		
100				

Of the 14 samples classified as 'doubtful,' 13 are so designated on account of the presence of traces of starch, or other impurity, too small in amount to have been designedly added : and one sample, because of so much sulphate of lime as to suggest the possibility of its intentional addition, although this cannot be held to be proven.

Cream of Tartar has been examined on four different occasions, before the present, and the results are tabulated below :—

Date of Collection.	Number of Samples Examined.	Found Genuine.	Same Expressed as Percentage.
1887.....	36	22	61
1889.....	86	52	60
1896.....	99	65	66
1900.....	65	57	88
1905.....	180	132	73

An improvement is seen up to 1900, since which time there is a notable falling off.

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The chief adulterants are burnt alum and phosphate of lime and starch. In most cases these adulterants are present together.

It is important to note that there exists a great range of value among those samples which are classed as genuine. It is unfortunate that no legal standard exists for commercial Cream of Tartar. The standard of the British Pharmacopœia must, of course, be accepted for Cream of Tartar as dispensed by apothecaries; but it would be too much to expect this standard to be reached by ordinary Cream of Tartar. The Pharmacopœia defines *purified Cream of Tartar* as containing less than $2\frac{1}{2}$ per cent. of impurity, which is equivalent to saying that it must contain $97\frac{1}{2}$ per cent of real bi-tartrate of potash. Judged by such a standard, only 23 samples (= 13 per cent) of the present collection could be styled genuine. The following table shows the value of the so-called genuine samples in the present collection on a basis of their content of bi-tartrate of potash.

23	samples	contain	more	than	.....	97	per cent.
32	"	"	"	"	.....	95	"
69	"	"	"	"	.....	90	"
130	"	"	"	"	.....	85	"

Ordinary commercial Cream of Tartar is ground argols which has been more or less purified. Argols invariably contains both tartrate and sulphate of lime, and these lime salts appear in the commercial Cream of Tartar. They result in part from being natural to the wine, but chiefly from the so-called 'plastering' of the wine. The manufacturer of Cream of Tartar is not responsible for their presence, but, inasmuch as they reduce the value of the article for purposes of bread-making, their presence is a distinct disadvantage to the purchaser. It follows that genuine samples of Cream of Tartar may differ greatly in value. Samples containing 97 per cent of bi-tartrate of potash are worth, pound for pound, 12 per cent more than samples containing only 85 per cent. Purified Cream of Tartar is made from argols which have been subjected to processes of solution and recrystallization, by which most of the lime salts are got rid of. Such an article should, of course, command a higher price than the ordinary Cream of Tartar.

An inspection of Tables 1 and 2 will show that genuine Cream of Tartar of 95 per cent purity, sells at about 40 cents per pound; while many samples of about 85 per cent are sold at the same price.

(See Nos. 5, 7, 14, New Brunswick; 1, 10, Quebec; 6, St. Hyacinthe; 1, 5, 7, 11, Toronto; 3, 9, 10, 13, 14, London; 14, Manitoba; 5, 10, 12, British Columbia).

So long as a limit is not recognized to the amount of lime salts (tartrate and sulphate) which may be present, without acknowledgement, in a commercial Cream of Tartar, this variable and unknown value of the article exists to the prejudice of the purchaser, and I believe, to the annoyance and chagrin of the dealer, who may be unaware of the quality of the article he sells. There is the further temptation of the dishonest manufacturer, who may add sulphate of lime (terra alba) to the article with a view of cheapening it. I suggested in 1889 (see Bull. 12) that commercial Cream of Tartar containing more than 10 per cent of tartrate of lime should be designated as 'low grade.' Perhaps a better means of ensuring the right of the purchaser would be a specific guaranty of purity expressed as a percentage. Thus, Cream of Tartar of 97 per cent would mean an article containing 97 per cent of potassium bi-tartrate, and therefore fulfilling the requirements of the Pharmacopœia. Ninety per cent grade would imply not only that the article was genuine Cream of Tartar, but that it contained 90 per cent of real potassium bi-tartrate. It is evident that if a 90 per cent article sells at 40 cents per pound, an 80 per cent Cream of Tartar should sell at 33 cents a pound.

I would respectfully recommend that this report be published as Bulletin 109.

I have the honour to be, sir,
Your obedient servant,

A. MCGILL,
Acting Chief Analyst.

TABLE I.—INSPECTION OF CREAM OF TARTAR—JULY, 1905.

Date of Collection.	Collector's Number.	Serial Number.	Name and Address of Vendor.	Cost per lb.	Remarks.
<i>District of Nova Scotia—R. J. Waugh, Inspector.</i>				\$ cts.	
July 13	27002	1	De Wolf & Lamont, Kentville, N.S.....	0 36	
" 14	27007	2	S. L. Cross, Kentville.....	0 36	
" 14	27009	3	B. H. Dodge "	0 40	
" 14	27014	4	R. E. Harris, Wolfville..	0 40	
" 14	27015	5	T. L. Harvey "	0 30	
" 15	27017	6	Wentworth Stores, Windsor, N.S.....	0 30	
" 15	27021	7	John Riley, Windsor, N.S.....	0 40	
" 15	27023	8	Shoud Bros. "	0 30	
" 18	27025	9	H. C. Barnaby & Son, Bridgewater, N.S.....	0 34	
" 18	27027	10	W. F. Porter "	0 36	
" 18	27028	11	D. McKay "	0 30	
" 19	27030	12	J. B. Holden, Lunenburg, N.S.....	0 36	
" 19	27033	13	B. G. Herman "	0 36	
" 21	27039	14	Crowe Bros., Truro, N.S.....	0 40	
" 25	27046	15	Hattie & Mylius, Halifax.....	0 36	
<i>District of New Brunswick—J. C. Ferguson, Inspector.</i>					
June 24	24015	1	Maritime Spice & Coffee Co., Ltd., 11 Union St., St. John, N.B.....	0 36	
" 27	24019	2	Dearborn & Co., 95 Prince William, St. John, N.B.....	0 53	
" 29	24026	3	James McKinnon, Main St., Fairville, St. John, N.B.....	0 36	
" 30	24028	4	O. A. Lordby, 736 Mair St., St. John, N.B.....	0 40	
July 3	24032	5	Walter Gilbert, cor. Princess & Charlotte Sts., St. John, N.B.....	0 40	Would not sell as pure goods.
" 4	24034	6	J. F. Shaw, cor. Waterloo & Golding Sts., St. John, N.B.....	0 40	
" 6	24040	7	M. E. Grass, 16 German St., St. John, N.B.....	0 40	
" 10	24043	8	P. Nase & Son, 2-14 Main St., St. John, N.B....	0 30	
Aug. 22	24073	9	W. H. Culbert, Peters St., Sussex, K.C., N.B....	0 30	
" 23	24078	10	H. S. Keith, Main St., Petticodiac, Westmoreland Co., N.B.....	0 40	
" 24	24081	11	O. M. Williamson & Co., Main St., Shediac, Westmoreland Co., N.B.....	0 40	
" 25	24087	12	W. G. Bell, Main St., Moncton, N.B.....	0 40	
" 28	24091	13	W. J. Kent Co., Ltd., Main St., Bathurst, Gloucester Co., N.B.....	0 40	
" 29	24095	14	James Mailer, Newcastle, N.B., Public Square, East.....	0 40	
" 30	24099	15	J.B. Snowball Co., Ltd., Water St., Chatham, N.B.....	0 50	
<i>District of P. E. Island—T. Moore, Inspector.</i>					
June 27	24434	1	Stearns & Son, Souris, P.E.I.....	0 30	
" 27	24438	2	A. Currie "	0 36	
" 27	24440	3	Matthew & McLean "	0 32	
" 27	24442	4	Sterns Bros. "	0 32	
" 28	24444	5	John McKenna, Charlottetown.....	0 36	
" 28	24450	6	R. F. Maddigan "	0 36	
" 28	24452	7	Sanderson & Co. "	0 32	
" 28	24456	8	Jenkins & Son "	0 36	
" 28	24460	9	A. Gates & Co. "	0 36	
" 28	24463	10	Beer & Goff "	0 36	
July 5	24466	11	Dyer, Woodman & Hunter, Alberton ..	0 36	
" 5	24468	12	J. H. Myrick, Alberton.....	0 30	
" 6	24477	13	Brace & McKay, Summerside.....	0 30	
" 6	24484	14	A. McLean, Georgetown....	0 30	
" 6	24486	15	W. W. Jenkins "	0 30	

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TABLE I. —INSPECTION OF CREAM OF TARTAR JULY, 1905—*Continued.*

Date of Collection.	Collector's Number.	Serial Number.	Name and Address of Vendor.	Cost per lb.	Remarks.
<i>District of Quebec—Chas. E. Roy, Inspector.</i>				\$ cts.	
July 20	27565	1	J. E. Lachance, 176 Dorchester, Que.....	0 40	
" 20	27566	2	Arcadius Caron, Montmagny.....	0 40	
" 21	27567	3	J. B. Hudon, L'Islet.....	0 40	
" 21	27568	4	Jos. Roy, Ste. Anne de la Pocardiére.....	0 30	
" 22	27569	5	A. L. Pelletier, Rivière du Loup.....	0 40	Guaranteed absolutely pure.
" 24	27570	6	H. A. Hamel, Chicoutimi.....	0 40	
" 25	27571	7	C. Rivard & C ^{ie} , Roberval.....	0 36	
" 25	27572	8	Art Du Tremblay ".....	0 40	
Aug. 10	27575	9	Ed. Pouliot, St. Grégoire de Montmorency.....	0 30	
" 10	27576	10	A. A. J. Gingras, Limoulin.....	0 40	
" 10	27577	11	J. Pepin, 132 Rue Massue, St. Lawrence, Que....	0 40	
" 12	27578	12	A. Turcot, 240 Rue Colomb, St. Lawrence, Que...	0 40	
" 12	27579	13	A. Barry, 612 Rue St. Valier, St. Lawrence, Que.	0 40	
July 27	27573	14	M. J. Boivin, Pt. Lévis.....	0 40	
" 28	27574	15	L. Méthot, 23 Notre Dame, Quebec.....	0 40	
<i>District of St. Hyacinthe—J. C. Rouleau, Inspector.</i>					
June 22	24552	1	E. J. Pearson, Richmond.....	0 40	
" 22	24553	2	H. C. Atkinson, Melbourne.....	0 40	
" 22	24554	3	Mackrae Bros., Richmond.....	0 36	
" 22	24555	4	Alf. Paradis, Brompton Falls.....	0 40	Box marked pure.
" 22	24556	5	L. O. Pepin & fils, Arthabaskaville.....	0 40	
" 22	24557	6	T. Denault ".....	0 40	" "
" 23	24558	7	L. P. St. Pierre, Three Rivers.....	0 40	
" 23	24559	8	H. Rivard & Cie ".....	0 40	
" 23	24560	9	T. Bourinval ".....	0 40	
" 26	24561	10	P. P. Lanoie, St. Anne.....	0 40	
" 26	24562	11	P. Letendre, Yamaska.....	0 36	
" 26	24563	12	Geo. Beaulac, Sorel.....	0 40	" "
" 26	24564	13	Ed. Collette, Verchères.....	0 36	
" 28	24565	14	Petit frères, St. Hyacinthe.....	0 40	
" 28	24566	15	E. A. Piché, Drummondville.....	0 36	
<i>District of Montreal—J. J. Costigan, Inspector.</i>					
June 21	26664	1	J. B. Deschamp, 371 Centre, Montreal.....	0 20	
" 26	26665	2	Marrott & Leblanc, St. Paul St. ".....	0 20	
" 26	25666	3	R. Herron & Co. ".....	0 26	
" 26	25667	4	S. H. Ewing & Sons, King St., Montreal....	0 25	
" 27	25668	5	J. A. Simard & Co., St. Paul St., Montreal...	0 28	Labelled pure.
" 27	25669	6	E. D. Marceau ".....	0 20	Wholesale dealer and claims to deal in pure goods only.
" 27	26670	7	J. V. Boudrias ".....	0 30	
" 27	26671	8	J. D. Boileau, 54 Bonsecour St. ".....	0 40	
" 27	26672	9	Lecour & Decary, 278 Craig, East ".....	0 50	
" 27	26673	10	J. H. Levesque, 119 St. Denis ".....	0 50	
" 27	26674	11	J. Chartier, 120 ".....	0 40	
" 27	26675	12	J. H. Harte, Notre Dame, West ".....	0 50	
" 27	26676	13	S. Carsley Co., Ltd. ".....	0 40	
" 27	26677	14	M. Kilkerly, 247 Craig, West ".....	0 36	
" 27	26678	15	John T. Lyons Co., 6 Bleury ".....	0 50	
<i>District of Kingston—J. J. Costigan, Inspector.</i>					
June 20	25436	1	H. Boivin, 80 Queen St., Ottawa.....	0 40	
" 20	25437	2	J. E. McAdam, 548 Wellington St., Ottawa.....	0 30	
" 20	25438	3	A. L. Pinard, 118 Rideau St., Ottawa....	0 40	
" 22	25439	4	John Henderson, Brock St., Kingston.....	0 40	
" 22	25440	5	P. G. Wilmot, King St. ".....	0 40	
" 22	25441	6	John Gilbert, Barrie St. ".....	0 40	

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TABLE I.—INSPECTION OF CREAM OF TARTAR—JULY, 1905—*Continued.*

Date of Collection.	Collector's Number.	Serial Number.	Name and Address of Vendor.	Cost per lb.	Remarks.
<i>District of Kingston—J. J. Costigan, Inspector—</i>					
Concluded.				\$ cts.	
June 24	25447	7	V. F. Kincaid, Brockville.....	0 40	
" 24	25448	8	Wm. Lorimer ".....	0 40	
" 24	25449	9	John Culbert ".....	0 40	
" 24	25450	10	W. H. McConkey ".....	0 40	
" 23	25442	11	John Panter & Son, Front St., Belleville.....	0 40	
" 23	25443	12	Geo. Boyle, Front Street, Belleville.....	0 40	
" 23	25444	13	O. S. Hicks ".....	0 40	
" 23	25445	14	A. L. Geen, Belleville.....	0 40	
" 23	25446	15	A. J. McCroden, Front St., Belleville.....	0 40	
<i>District of Toronto—J. J. Costigan, Inspector.</i>					
July 18	24825	1	L. Kelly, 380 Spadina Ave., Toronto.....	0 40	Vendor stated article was compound.
" 18	24826	2	M. Mayer & Son, 408 Spadina Ave., Toronto.....	0 40	
" 18	24827	3	R. N. Ferguson, 272 College St. ".....	0 40	
" 18	24828	4	W. J. Sykes, 344 ".....	0 40	
" 19	24829	5	Bradley & Sons, St. Paul St., St. Catharines.....	0 40	
" 19	24830	6	A. J. Greenwood & Co., St. Catharines.....	0 40	
" 19	24831	7	Southcott & Potter ".....	0 40	
" 19	24832	8	P. M. Dwyer ".....	0 40	
" 19	24833	9	C. W. Hellemis & Co. ".....	0 40	
" 19	24834	10	Theo. Sweet ".....	0 40	
" 19	24835	11	Walker & Abbs ".....	0 40	
" 20	24836	12	F. F. Dalley Co., Hughson St., Hamilton.....	0 25	
" 20	24837	13	Hamilton Coffee & Spice Co. ".....	0 25	
" 21	24838	14	Todhunter & Mitchell, Front St., Toronto.....	0 25	
" 21	24839	15	Dalton Bros., 191 Front St., Toronto.....	0 20	
<i>District of London—Thos. Kidd, Inspector.</i>					
June 28	22324	1	Fred. Milman, Woodstock.....	0 40	
" 28	22331	2	G. S. Winter & Son, Brantford.....	0 40	
" 22	22303	3	William Hill & Co., Mitchell.....	0 40	
" 26	22307	4	Oman Mallion, Stratford.....	0 40	
" 26	22312	5	J. M. Aam, St. Mary's.....	0 40	
" 27	22316	6	Mrs. Geo. Armstrong, 495 Richmond St., London.....	0 40	
" 27	22320	7	H. W. Healy, Ingersol.....	0 40	
July 4	22338	8	W. M. Metcalf & Co., Berlin.....	0 40	
" 7	22343	9	Peter Anderson, Guelph.....	0 40	
" 7	22349	10	Andrew Davey, Preston.....	0 40	
" 10	22353	11	J. McDermot, Georgetown.....	0 40	
" 12	22358	12	Robert Scott, Beeton, Ont.....	0 40	
" 13	22361	13	J. J. McKnight, Tottenham.....	0 40	
" 14	22370	14	J. R. Wood, Fergus.....	0 40	
" 14	22372	15	Andrew Young, Seaforth.....	0 40	
<i>District of Manitoba—W. M. Conklin, Inspector.</i>					
July 25	25509	1	Foley, Lock & Sarson, Winnipeg.....	0 30	
" 25	25510	2	Jobin & Marin ".....	0 30	
" 25	25511	3	Kenneth, McKenzie & Co. ".....	0 30	
" 27	25512	4	Blue Ribbon Mfg. Co. ".....	0 30	
" 27	25513	5	Campbell Bros. & Wilson ".....	0 30	
" 27	25514	6	Codville & Co ".....	0 30	
" 28	25515	7	L. J. Green & Son ".....	0 20	
" 28	25516	8	Bergevin & Pardee ".....	0 25	
" 28	25517	9	Williamson Bros. ".....	0 20	
" 28	25518	10	T. J. Davis ".....	0 20	
" 28	25519	11	Sutherland Bros. ".....	0 20	
Aug. 8	25536	12	Sharp & Mutch, Crystal City.....	0 40	
" 8	25538	13	W. Endicott, Pilot Mound.....	0 40	
" 9	25540	14	Moore & Hills, Cartwright.....	0 40	
" 10	25543	15	Miller & Haney, Ninga.....	0 40	

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TABLE I.—INSPECTION OF CREAM OF TARTAR--JULY, 1905—*Concluded.*

Date of Collec- tion.	Collector's Number.	Serial Number.	Name and Address of Vendor.	Cost per lb.	Remarks.
<i>District of Calgary—W. Fletcher, Inspector.</i>				\$ cts.	
July 18	21799	1	Hatfield & McLaren, Calgary.....	0 40	
" 18	21803	2	Brown & Knight "	0 40	
" 21	21806	3	Canada Grocers' Sta. Branch, Calgary.	0 30	
" 21	21810	4	Codville, Smith Co., Ltd. "	0 30	
" 22	21816	5	A. S. Cameron, Calgary.....	0 30	
" 25	21822	6	Star Trading Co., Wetaskiwin.. . . .	0 40	
" 25	21825	7	Compton & Montgomery, Wetaskiwin	0 15	
" 27	21837	8	Hudson Bay Co., Edmonton....	0 40	
" 27	21841	9	Revillon Bros. "	0 40	
" 27	21847	10	McDougall & Secord "	0 40	
" 27	21851	11	Williamson Bros., Winnipeg.	0 40	
" 28	21858	12	C. Sugarman, Strathcona.....	0 40	
" 28	21864	13	T. P. Malone "	0 40	
" 28	21869	14	Douglass Bros. "	0 40	
" 28	21873	15	A. H. Richards & Co., Strathcona.....	0 40	
<i>District of British Columbia—E. B. Parkinson, Inspector.</i>					
June 26	26906	1	A. Desbusay, Vancouver.....	0 40	
" 26	26909	2	J. Deal "	0 40	
" 27	26912	3	C. E. Turner "	0 40	
" 28	26930	4	La Belle & Co " ..	0 40	
" 28	26931	5	G. Hobson "	0 40	
" 29	26934	6	A. J. Sinclair, New Westminster, B.C.	0 40	
July 6	26946	7	R. Mowat, Victoria, B.C.....	0 40	
" 6	26954	8	Fred. Crane "	0 45	
" 6	26957	9	" "	0 50	
" 7	26969	10	Stemler & Collison, Victoria.....	0 40	
" 10	26970	11	H. A. Edgett & Co., Vancouver.. . . .	0 40	
" 18	28014	12	Foran Bros. "	0 40	
" 18	28019	13	The Dominion Grocery "	0 50	
" 18	28020	14	F. Filion "	0 40	
" 18	28023	15	The City Grocery "	0 30	

TABLE II.—INSPECTION OF CREAM OF TARTAR—JULY, 1905.

District.	Serial Number.	RESULT OF ANALYSIS.							Remarks.
		Collector's Number.	Starch.	Alumina. Al ₂ O ₃ .	Sulphates. SO ₄ .	Phosphates. P ₂ O ₅ .	Available Acidity.		Analyst.
							CC. N. per 100 grs.	As bi- tartrate of potash.	
			p. c.	p. c.	p. c.	p. c.		p. c.	
Nova Scotia.	1	27002					476	89.5	C. J. Fagan.. Genuine.
	2	27007					480	90.2	"
	3	27009					494	92.9	C. J. Fagan.
	4	27014	2.2	0.54	Present.	Present.	530	....	" Adulterated.
	5	27015					490	92.0	" Genuine.
	6	27017				Trace	455	85.5	" Doubtful.
	7	27021					475	89.3	" Genuine.
	8	27023					465	87.3	"
	9	27025					476	89.5	C. J. Fagan..
	10	27027					470	88.4	"
	11	27028					464	87.2	"
	12	27030					464	87.2	"
	13	27033					464	87.2	"
	14	27039					470	88.4	"
	15	27046					478	89.9	C. J. Fagan..
New Brunswick.	1	24015					508	96.5	W. H. Ellis..
	2	24019					510	96.9	"
	3	24026					474	89.1	"
	4	24028					475	89.3	"
	5	24032			Much.		425	79.9	" Doubtful.
	6	24034					470	88.4	C. J. Fagan.. Genuine.
	7	34040					465	87.3	"
	8	24043					455	85.5	"
	9	24073					473	88.9	J. T. Donald
	10	24078					470	88.4	"
	11	24081					468	88.0	"
	12	24087					487	91.6	J. T. Donald..
	13	24091					520	97.8	"
	14	24095					465	87.3	"
	15	24099					480	90.2	"
P. E. Island.	1	24434					505	94.9	"
	2	24438	Trace				459	86.3	F. N. Valade.
	3	24440					464	87.2	C. J. Fagan..

"	4	24442	.....	.....	.....	.....	480	90.2	F. X. Valade.	"	
"	5	24444	.....	.....	.....	.....	498	93.6	"	"	
"	6	24450	.....	.....	.....	.....	475	89.3	"	"	
"	7	24452	.....	.....	.....	.....	488	91.7	F. X. Valade.	"	
"	8	24456	.....	.....	.....	.....	520	99.8	"	"	
"	9	24460	.....	.....	.....	.....	476	89.5	F. X. Valade.	"	
"	10	24463	.....	.....	.....	.....	478	89.9	"	"	
"	11	24466	.....	.....	.....	.....	480	92.4	"	"	
"	12	24468	.....	.....	.....	.....	475	88.9	F. X. Valade.	"	
"	13	24477	Trace.	Present.	Trace.	.....	470	88.4	.....	Doubtful.	
"	14	24484	.....	.....	.....	.....	482	90.6	F. X. Valade.	Genuine.	
"	15	24486	.....	.....	.....	.....	480	90.2	"	"	
Quebec.	1	27565	.....	.....	.....	.....	456	87.7	C. J. Fagan.	"	
"	2	27566	Trace.	.....	Trace.	.....	478	89.9	"	Doubtful.	
"	3	27567	.....	.....	.....	.....	486	91.4	"	Genuine.	
"	4	27568	.....	Present.	.....	.....	420	.....	"	Adulterated.	
"	5	27569	35.6	4.90	Present.	.....	530	99.6	"	Genuine.	
"	6	27570	.....	.....	.....	.....	472	88.7	"	"	
"	7	27571	29.9	0.96	Present.	Present.	560	.....	"	Adulterated.	
"	8	27572	18.7	1.21	"	"	578	.....	"	"
"	9	27575	27.6	.....	"	"	525	.....	"	"
"	10	27576	.....	.....	.....	.....	430	80.8	"	Genuine, but low grade.	
"	11	27577	7.0	.....	Present.	.....	440	.....	"	Adulterated.	
"	12	27578	10.3	.....	"	"	450	.....	"	"
"	13	27579	4.9	0.31	Present.	11.2	528	.....	J. T. Donald.	"	
"	14	27573	Trace.	0.86	.....	.....	490	92.1	F. X. Valade.	Doubtful.	
"	15	27574	"	.....	.....	.....	518	97.4	"	Genuine.	
St. Hyacinthe	1	24552	.....	.....	.....	.....	480	90.2	"	"	
"	2	24553	.....	.....	.....	.....	476	89.5	"	"	
"	3	24554	.....	.....	.....	.....	514	96.7	"	"	
"	4	24555	6.2	.....	Present.	Present.	512	.....	"	Adulterated.	
"	5	24556	9.0	Present.	"	"	550	.....	"	"
"	6	24557	.....	.....	.....	.....	460	86.5	"	Genuine.	
"	7	24558	7.1	6.87	Present.	Present.	460	.....	"	Adulterated.	
"	8	24559	11.6	4.94	"	"	540	.....	"	"
"	9	24560	.....	.....	.....	.....	526	98.9	"	Genuine.	
"	10	24561	.....	.....	.....	.....	480	90.2	"	"	
"	11	24562	.....	.....	.....	.....	476	89.5	"	"	
"	12	24563	Trace.	0.27	Present.	Present.	494	92.9	"	Doubtful.	
"	13	24564	12.1	6.75	"	"	600	.....	"	Adulterated.	
"	14	24565	.....	.....	.....	.....	472	88.7	"	Genuine.	
"	15	24566	2.2	2.99	Present.	Present.	540	.....	"	Adulterated—acid phosphate of lime.	
Montreal.	1	26664	8.7	2.18	"	"	540	.....	"	"
"	2	26665	.....	.....	.....	.....	486	91.4	W. H. Ellis.	Genuine.	
"	3	26666	.....	.....	.....	.....	476	89.5	"	"	
"	4	26667	.....	Present.	Present.	.....	476	89.5	"	"	
"	5	26668	6.6	.....	.....	.....	482	.....	"	Adulterated with starch and phosphate.	
"	6	26669	.....	.....	.....	.....	468	88.0	"	Genuine.	
"	7	26670	.....	.....	.....	.....	474	89.1	"	"	
"	8	26671	38.8	.....	Present.	Present.	424	.....	"	Adulterated.	

TABLE 11.—INSPECTION OF CREAM OF TARTAR—JULY, 1905—Continued.

District.	Serial Number.	RESULT OF ANALYSIS.						Analyst.	Remarks.	
		Collector's Number.	Starch.	Alumina. Al ₂ O ₃ .	Sulphates. SO ₄ .	Phosphates. P ₂ O ₅ .	Available Acidity.			
							(C.C. N.) per 100 grs.			As bi-tartrate of potash.
			p. c.	p. c.	p. c.	p. c.	p. c.			
Montreal (Con.)	9	26672		Trace.			478	89.9	W. H. Ellis...	Genuine.
	10	26673					476	89.5	F. N. Valade.	Doubtful.
	11	26674	1.5				464	87.2	"	"
	12	26675					480	90.2	"	Genuine.
	13	26576					484	91.0	"	"
	14	26677					496	92.1	"	"
	15	26678					486	91.4	"	"
	1	25436					498	93.6	W. H. Ellis	"
	2	25437					522	98.1	"	"
	3	25438					478	89.9	"	"
	4	25439					476	89.5	"	"
	5	25440	11.4	3.72	Present.	Trace.	466		"	Adulterated.
	6	25441	4.3				492		F. N. Valade	Adulterated with starch.
	7	25547					484	91.0	W. H. Ellis	Genuine.
	8	25548			3.04	Present.	450		"	Adulterated with alum.
9	25449	Trace				482	90.5	"	A little starch. Doubtful.	
Toronto.	10	25450	11.6	3.83	Present.		476		"	Adulterated.
	11	25442	1.5	5.66	"	Present.	508		"	"
	12	25443	3.4	2.67	"		474		"	"
	13	25444					484	91.0	"	Genuine.
	14	25445					500	94.0	"	"
	15	25446					482	90.6	"	"
	1	24825					466	87.6	C. J. Fagan	"
	2	24826					490	92.1	"	"
	3	24827	7.9		Present.		492	92.5	"	Adulterated with starch.
	4	24828					487	89.9	"	Genuine.
	5	24829					466	87.6	"	"
	6	24830					510	95.9	"	"
	7	24831					460	86.5	"	"
	8	24832					510	95.9	"	"
	9	24833		Present.	Present.		600		"	Adulterated. Is burnt alum.
	10	24834					478	89.9	C. J. Fagan	Genuine.
	11	24835					455	84.6	"	"

London	12	"	24836	.....	.....	.....	.....	.....	100.0	C. J. Fagan	"	"
	13	"	24837	.....	.....	.....	.....	.....	91.0	"	"	"
	14	"	24838	.....	.....	.....	.....	.....	100.0	"	"	"
	15	"	24839	.....	Present.	None.	.....	.....	89.3	"	Adulterated with starch.	"
	1	"	22324	.....	.....	.....	.....	.....	98.5	J. T. Donald	Genuine.	"
	2	"	22331	.....	.....	.....	.....	.....	97.0	"	"	"
	3	"	22303	.....	.....	.....	.....	.....	86.7	"	Doubtful.	"
	4	"	22307	.....	.....	4.65	.....	.....	80.8	"	Adulterated with starch.	"
	5	"	22312	.....	.....	.....	.....	.....	92.1	"	Genuine.	"
	6	"	22316	.....	.....	.....	.....	.....	91.0	W. H. Ellis	"	"
	7	"	22320	.....	.....	.....	.....	.....	89.5	"	"	"
	8	"	22338	.....	.....	.....	.....	.....	98.9	F. N. Valade	"	"
	9	"	22343	Trace	Present.	.....	.....	.....	78.0	"	Doubtful.	"
	10	"	22349	.....	.....	.....	.....	.....	86.6	"	Genuine.	"
Manitoba	11	"	22353	.....	.....	.....	.....	.....	95.9	"	"	"
	12	"	22358	None	Present.	Present.	.....	.....	.....	"	Adulterated.	"
	13	"	22361	"	"	.....	.....	.....	81.8	"	Doubtful.	"
	14	"	22370	"	.....	.....	.....	.....	85.6	"	Genuine.	"
	15	"	22372	.....	.....	.....	.....	.....	93.0	"	"	"
	1	"	25509	.....	Present.	Present.	.....	.....	88.4	"	Adulterated.	"
	2	"	25510	0.8	Present.	Present.	.....	.....	.....	"	"	"
	3	"	25511	3.4	"	"	.....	.....	.....	"	"	"
	4	"	25512	.....	.....	.....	.....	.....	86.5	"	Genuine.	"
	5	"	25513	.....	Present.	.....	.....	.....	90.2	"	"	"
	6	"	25514	.....	.....	.....	.....	.....	86.5	"	"	"
	7	"	25515	.....	.....	.....	.....	.....	86.5	"	"	"
	8	"	25516	.....	.....	.....	.....	.....	96.8	"	"	"
	9	"	25517	.....	.....	.....	.....	.....	86.5	"	"	"
	10	"	25518	.....	.....	.....	.....	.....	86.5	"	"	"
Calgary	11	"	25519	.....	.....	.....	.....	.....	86.5	"	"	"
	12	"	25536	.....	.....	.....	.....	.....	89.1	J. T. Donald	"	"
	13	"	25538	.....	.....	.....	.....	.....	99.0	"	"	"
	14	"	25540	.....	1.44	.....	.....	.....	81.6	"	Doubtful.	"
	15	"	25543	.....	0.13	.....	.....	.....	.....	"	Adulterated.	"
	1	"	21799	.....	.....	.....	.....	.....	92.5	"	Genuine.	"
	2	"	21803	.....	.....	.....	.....	.....	97.8	"	"	"
	3	"	21806	.....	.....	.....	.....	.....	98.3	"	"	"
	4	"	21810	.....	.....	.....	.....	.....	91.7	"	"	"
	5	"	21816	.....	.....	.....	.....	.....	91.2	"	"	"
	6	"	21822	.....	.....	.....	.....	.....	98.5	"	"	"
	7	"	21825	.....	.....	.....	.....	.....	98.4	"	"	"
	8	"	21837	.....	.....	.....	.....	.....	91.9	"	"	"
	9	"	21841	.....	.....	.....	.....	.....	99.1	"	"	"
	10	"	21847	.....	.....	.....	.....	.....	97.4	"	"	"
British Columbia	11	"	21851	.....	.....	.....	.....	.....	96.4	"	"	"
	12	"	21858	.....	.....	.....	.....	.....	98.4	"	"	"
	13	"	21864	.....	.....	.....	.....	.....	96.3	"	"	"
	14	"	21869	.....	.....	.....	.....	.....	98.3	"	"	"
	15	"	21873	19.0	2.8	Present.	.....	.....	.....	C. J. Fagan	Adulterated.	"
	1	"	26906	.....	.....	.....	.....	.....	91.0	"	Genuine.	"

TABLE II.—INSPECTION OF CREAM OF TARTAR—JULY, 1905—*Concluded.*

District.	Serial Number.	RESULT OF ANALYSIS.						Analyst.	Remarks.	
		Collector's Number.	Starch.	Alumina. Al ₂ O ₃ .	Sulphates. SO ₃ .	Phosphates. P ₂ O ₅ .	Available Acidity.			
							CC. N. per 100 grs.			As bi-tartrate of potash.
British Columbia <i>Con.</i>	2	26909	1.0	p. c.	p. c.	p. c.	472	88.7	C. J. Fagan...	Doubtful.
	3	26912	...	...	...	...	532	100.0	"	Genuine.
	4	26930	...	...	...	...	480	90.2	"	"
	5	26931	...	...	...	...	460	86.5	"	"
	6	26934	...	...	...	...	480	90.2	C. J. Fagan	"
	7	26946	...	Present.	...	...	486	91.4	"	"
	8	26954	...	Present.	Present.	...	875	...	...	Adulterated ; is burnt alum only.
	9	26957	3.6	...	"	Present.	500	...	...	Adulterated.
	10	26969	...	...	...	...	465	87.3	...	Genuine.
	11	26970	...	...	...	...	532	100.0	C. J. Fagan	"
	12	28014	...	...	...	...	465	87.3	"	"
	13	28019	...	...	...	...	528	99.3	J. T. Donald	"
	14	28020	...	...	...	...	470	88.4	"	"
	15	28023	...	...	...	...	460	86.5	"	"

SESSIONAL PAPER No. 14

APPENDIX E.**BULLETIN No. 110.—TINCTURE OF GINGER.**

OTTAWA, October 18, 1905.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue Department.

SIR,—I beg to submit herewith a report by Mr. McGill on alcoholic preparations of ginger which were obtained by the Food Inspectors according to your instructions, in the months of August and September, 1905. I beg to recommend its publication as Bulletin No. 110.

I have the honour to be, sir,
Your obedient servant,

THOMAS MACFARLANE,
Chief Analyst.

LABORATORY OF THE INLAND REVENUE DEPARTMENT,
317 QUEEN STREET.

OTTAWA, ONT., October 13, 1905.

THOS. MACFARLANE, Esq.,
Chief Analyst.

DEAR SIR,—I beg to hand you a report upon 108 samples of alcoholic preparations of ginger. The report comprises four tabular statements, as follows :—

Table	I.—Data furnished by Inspectors.
"	II.—Analytical Data for Tinctures.
"	III.—" Essences.
"	IV.—" Extracts.

This examination has had special reference to the alcoholic strength of the samples in question ; but other features have also been kept in view.

I have to acknowledge valued assistance from Miss Wright and Messrs. Valin and Lemoine in this investigation.

Yours truly,

A. MCGILL,
Assistant to the Chief Analyst.

TABLE I. INSPECTION OF ALCOHOLIC PREPARATIONS OF GINGER—AUGUST, 1905.

Date of Collection.	Nature of Sample.	Serial Number.	Collector's Number.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by Vendor.	Inspector's Report.
					Quantity.	Value.		
1905				<i>District of Nova Scotia—R. J. Waugh, Inspector.</i>		\$ cts.		
Aug. 15	Essence Ginger.	1	27060	G. C. McDougall, Kentville.....	6 ozs.	0 75	Park Davis, Walkerville, Ont.....	
" 15	" "	2	27061	J. D. Clark, Kentville.....	6 "	0 75	J. D. Clark, Kentville, N.S.....	
" 16	Tincture "	3	27073	A. E. Wilson, Windsor.....	6 "	0 60	A. E. Wilson, Windsor, N.S.....	
" 18	Essence "	4	27088	E. S. Blackie, Halifax.....	6 "	0 50	E. S. Blackie, Halifax.....	
" 18	Tincture "	5	27089	Hattie & Mylius ".....	6 "	0 75	Hattie & Mylius, Halifax.....	
" 18	" "	6	27096	G. A. Burbidge ".....	6 "	0 50	Brown & Webb, Halifax.....	
" 18	" "	7	27091	C. Barnstead ".....	6 "	0 60	Kerny Watson, Montreal.....	
" 18	" "	8	27092	J. R. Rawley ".....	6 "	0 50	Lynan & Sons ".....	
" 18	" "	9	27093	Brown Bros. ".....	6 "	0 75	Brown Bros., Halifax.....	Sold as mild.
" 18	" "	10	27097	C. E. Huggins ".....	6 "	0 60	C. E. Huggins, Halifax.....	
				<i>District of New Brunswick—J. C. Ferguson, Inspector.</i>				
Aug. 16	Essence Ginger.	1	24060	A. Chipman, Smith & Co., 41 Charlotte St., St. John, N.B.	3 btls.	0 75	A. Chipman, Smith & Co., 41 Charlotte St., St. John, N.B.	
" 15	Tincture "	2	24055	The Canadian Drug Co., Ltd., 27 and 29 Mill St., St. John, N.B.	3 "	0 70	The Canadian Drug Co., Ltd., St. John, N.B.	
" 18	Extract "	3	24063	J. S. Armstrong & Machum, 32 Charlotte St., St. John, N.B.	3 "	0 75	Pure Gold Manufacturing Co., Toronto....	
" 18	" "	4	24070	R. E. White, cor. Wall and Paradise Sts., St. John, N.B.	3 "	0 30	Robinson Manufacturing Co., Toronto....	Vendor would not guarantee as to purity.
" 17	Tincture "	5	24062	Geo. A. Moore, cor. Brussels and Richmond Sts., St. John, N.B.	3 "	0 75	Geo. A. Moore, 105 Brussels St., St. John, N.B.	
" 17	Extract "	6	24066	Paddington & Merritt, 55 Charlotte St., St. John, N.B.	3 "	0 75	McLarens, Hamilton, Ont.....	
" 25	Essence "	7	24088	Fairweather Bros., Main St., Moncton, N.B.	3 "	0 75	Fairweather Bros, Moncton, N.B.....	
Sept. 2	Tincture "	8	24109	Thomas J. Durick, 403 Main St., N.E., St. John, N.B.	3 "	0 60	Thomas J. Durick, 403 Main St., N.E., St. John, N.B.	
" 1	Essence "	9	24107	George E. Price, 127 Queen St., St. John, N.B.	3 "	0 75	George E. Price, 127 Queen St., St. John, N.B.	
" 1	Extract "	10	24108	E. Clinton Brown, cor. Waterloo and Union Sts., St. John, N.B.	3 "	0 75	E. Clinton Brown, cor. Waterloo and Union Sts., St. John, N.B.	

District of Prince Edward Island— T. Moore, Inspector.									
Aug.	12	Essence (Ginger..	1	24500	J. G. Jamieson, Charlottetown.	6	ozs.	0 60	J. G. Jamieson, Charlottetown.
"	12	"	2	28201	A. W. Reddin	6	"	0 60	A. W. Reddin
"	12	"	3	28205	G. E. Hughes	6	"	0 50	G. E. Hughes
"	15	"	4	28208	Johnson & Johnson	6	"	0 50	Hattie & Mylius, Halifax.
"	15	"	5	28210	McDonald & McKinnon	8	"	0 50	Perry, Watson & Co., Montreal.
"	16	"	6	28212	John Knight, Georgetown.	8	"	0 65	Canadian Drug Co., St. John, N.B.
"	16	Extract	7	28216	A. McLean & Co.	8	"	0 65	The T. Milburn Co., Toronto.
"	16	"	8	28220	H. F. Feehan, Mount Stewart.	7	"	0 65	Milburn & Co., Toronto.
"	17	"	9	28224	J. A. Hynes, Kensington.	6	"	0 45	Bennell Chemical Co., Toronto.
"	18	"	10	28232	A. W. P. Gourlie, Summerside.	8	"	0 60	J. A. Gourlie, Summerside.
District of Quebec—C. E. Roy, Inspector.									
Sept.	11	Tincture Ginger	1	29004	Ed. Morin & Co., Mountain Hill	1	doz.	0 21	Vendor
"	14	Extract	2	29016	P. L. Turgeon, Finlay Market.	1	"	0 45	Imperial Extract Co., Toronto.
"	14	"	3	29019	Drouin et frère, 37 St. Andre.	1	"	0 90	Ed. Morin et frère, Quebec.
"	20	"	4	25028	A. Leclerc et Cie, Quebec.	1	"	0 30	A. Leclerc et Cie, Quebec.
"	20	"	5	29029	W. Brunet et Cie, Quebec.	1	"	0 30	W. Brunet et Cie, Quebec.
"	21	Essence	6	29031	Victor Giroux, Quebec	1	"	0 45	Victor Giroux, Quebec.
"	21	Extract	7	29034	Turcotte et frère, Quebec.	1	"	0 20	Imperial Extract Co., Toronto.
"	22	"	8	29036	O'Carigan et fils, Three Rivers.	1	"	0 50	Not known.
"	29	Essence	9	29041	Henry Willis, Quebec.	1	"	0 75	Henry Willis, Quebec.
"	29	Tincture	10	29042	J. E. Livernois, Quebec.	1	"	0 39	Chandler & Massey, Toronto.
District of St. Hyacinthe—J. C. Rouleau, Inspector.									
Aug.	22	Tincture Ginger	1	24778	Estate James Fortune, Huntingdon.	6	ozs.	0 50	Vendors
"	23	"	2	24779	Dr. J. T. A. Gauthier, Valleyfield.	6	"	0 66	Lynman, Son & Co., Montreal.
"	24	Extract	3	24780	Dr. Wallace, Buckingham.	3	bots.	0 25	"
"	29	Tincture	4	24781	Pharmacie, St. Jérôme.	3	"	0 45	Kerry Watson, Montreal.
"	29	Essence	5	24782	" Gilbert, St. Jérôme.	3	"	0 75	Vendor.
"	30	Tincture	6	24783	" Joliette.	3	"	0 50	Lynman, Knox, Montreal.
"	31	"	7	24784	Bruneau & Sylvester, Sorel.	3	"	0 60	Evans & Co.
Sept.	1	Essence	8	24785	Smith & Smith, Nicolet.	3	"	0 60	Vendors.
"	6	"	9	24786	Pharmacie Ostigny, St. Hyacinthe.	6	ozs.	0 40	"
District of Montreal J. J. Costigan, Inspector.									
Aug.	17	Tincture Ginger	1	26831	Mrs. E. Robert, 1 St. Lawrence St.	8	ozs.	0 50	Firm name Pharmacie Robert
"	17	"	2	26832	E. Giroux, 216 St. Lawrence St.	8	"	0 75	Lynman, Sons & Co., Montreal.
"	17	Essence	3	26833	L. A. Bernard, 1882 St. Catherine St	8	"	0 75	Not known.
"	17	Tincture	4	26834	A. Goyette, 1825 St. Catherine St.	8	"	0 75	"
"	18	"	5	26835	Dr. Lalonde, 3154 Notre Dame, St. Cune- gonde, P.Q.	8	"	0 65	"
Bought from Chas. E. Frost & Co., Montreal									
Labelled 'Jamaica Ginger.'									

TABLE I—INSPECTION OF ALCOHOLIC PREPARATIONS OF GINGER—AUGUST, 1905—Concluded.

Date of Collection.	Nature of Sample.	Serial Number.	Collector's Number.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by Vendor.	Inspector's Report.
					Quantity.	Value.		
1905								
Aug. 18	Tincture Ginger.	6	26836	District of Montreal—Con. Dr. Leonard, 3196 Notre Dame, St. Cune- gonde, P.Q.	8 ozs.	\$ 0 75	Not known.....	
" 18	" "	7	26837	Dr. H. Campean, 3201 Notre Dame, St. Chinegonde, P.Q.	8 "	0 50	Lyman, Knox & Co., Montreal	
" 18	" "	8	26838	F. L. Wooley, 2543 Notre Dame, Montreal	8 "	0 65	Davis, Lawrence Co. "	
" 18	" "	9	26839	J. H. Nault, 2449 " "	8 "	0 70	Not known.....	
" 18	" "	10	26840	Hercule Guerin, 2309 " "	8 "	0 60	"	
District of Kingston—J. Hogan and A. E. Sanderson, Inspectors.								
Aug. 17	Tincture Ginger.	1	28407	H. F. McCarthy, Wellington St., Ottawa.	6 "	0 40	Vendor	Manufactured under B.P. rules.
" 17	" "	2	28408	E. D. Storey, Bank St., Ottawa.....	6 "	0 35	"	Sold as ordinary Tincture of Ginger.
" 21	" "	3	28510	W. W. Gibson, King St., Kingston.....	6 "	0 25	Not known.....	
" 21	Essence	4	28512	A. Hoag, Princess St., Kingston.....	6 "	0 40	A. Hoag, Princess St., Kingston.	
" 21	Extract	5	28515	James McLeod, Princess St., Kingston...	6 "	0 30	James McLeod, Princess St., Kingston...	
" 22	Essence	6	28517	H. Wade, King St., Kingston.....	6 "	0 30	H. Wade, King St., Kingston.	
" 22	Tincture	7	28519	H. Skinner, Princess St., Kingston ..	6 "	0 40	H. Skinner, Princess St., Kingston.	
" 22	" "	8	28521	A. Chown " "	6 "	0 50	A. Chown " "	
" 22	Essence	9	28523	G. W. Mahood " "	6 "	0 60	G. W. Mahood " "	
" 22	Tincture	10	28524	T. L. Best " "	6 "	0 60	T. L. Best " "	
District of Toronto—A. E. Sanderson, Inspector.								
Aug. 24	Tincture Ginger.	1	28414	R. W. Boyle, 351 Yonge St., Toronto....	6 ozs.	0 60	Lyman Bros., Toronto.....	
" 25	" "	2	28417	F. E. Karn, 132 Victoria St., Toronto....	6 "	0 30	Lyman, Knox & Clarkson, Montreal.....	
" 25	" "	3	28420	M. D. Hall, 100 Queen St. "	6 "	0 53	Lyman Bros., Toronto	
" 25	Essence	4	28424	H. N. Winter, 1196 Yonge St., N., To- ronto.	6 "	0 50	Lyman, Knox & Clarkson, Montreal.....	
" 26	Tincture	5	28430	J. R. Byers, Oakville.....	6 "	0 50	Vendor	
" 26	" "	6	28432	Dr. J. Urquhart, Oakville.....	6 "	0 75	Not known.....	
" 28	" "	7	28433	John Mack, 1 James St., N., Hamilton ..	6 "	0 50	Dominion Drug Co., Hamilton	
" 28	" "	8	28439	Park & Park, 17 Market Sq. "	6 "	0 45	Vendors	

"	28	"	"	9	28441	R. E. Reynolds, cor. James and Cannon Sts., Hamilton.	6	"	0 50	D. P.	
"	28	"	"	10	28446	H. W. Ralph, Dundas.	6	"	0 40	Vendor	
<i>District of London—T. Kidd, Inspector.</i>											
Aug.	22	Extract Ginger.		1	22403	S. A. Hicks, Goderich.	3	btls.	0 75	S. A. Hicks, Goderich.	
"	17	Tincture		2	22397	Jurey & Gregory, Collingwood.	3	"	0 40	Jurey & Gregory, Collingwood.	
"	24	"		3	22415	Kerrey, Watson & Co., London.	3	"	0 55	Kerrey, Watson & Co., London.	
"	24	Extract		4	22411	W. J. Stanberg	2	"	0 20	Canada Spice and Grocery Co., London.	
"	24	"		5	22412	A. R. Rowet & Co.	3	"	0 25	Imperial Extract Co., Toronto.	
"	24	Tincture		6	22413	Cairncross & Lawrence	3	"	0 75	Cairncross & Lawrence, London.	
"	14	Extract		7	22378	W. F. Vanstone, Wingham.	3	"	0 25	Not known.	
"	15	"		8	22386	Priest Spragge, Owen Sound.	3	"	0 30	J. A. & W. Sheriff, Toronto.	
"	16	"		9	22391	James A. Laycock, Meaford.	3	"	0 30	Lucas, Steal & Bristol, Hamilton.	
"	24	"		10	22409	J. C. Treblecock, Dundas st., London.	3	"	0 25	F. F. Dally & Co., Hamilton.	
<i>District of Manitoba—W. M. Conklin, Inspector.</i>											
Aug.	23	Tincture (Ginge		1	25554	Young & Co., Neepawa.	8	ozs.	0 60	Young & Co., Neepawa.	
"	23	"		2	25555	W. M. Hamilton	8	"	0 60	W. M. Hamilton	
"	23	"		3	25557	R. T. Butchart, Minnedosa.	4	"	0 65	R. T. Butchart, Minnedosa	
"	23	"		4	25558	S. L. Taylor	6	"	0 50	S. L. Taylor	
"	24	"		5	25560	R. T. Rutherford, Strathclair.	8	"	0 75	Martin Bole, Wynne Co., Winnipeg.	
"	25	"		6	25563	The Shoal Lake Pharmacy, Shoal Lake.	8	"	0 75	The Shoal Lake Pharmacy, Shoal Lake.	
"	26	"		7	25564	Gladstone Drug Co., Gladstone.	8	"	0 75	Gladstone Drug Co., Gladstone.	
"	26	"		8	25566	Red Cross Pharmacy	8	"	0 60	Red Cross Pharmacy	
"	26	"		9	25567	S. B. Cowan, Portage la Prairie.	8	"	0 60	S. B. Cowan, Portage la Prairie.	
"	26	"		10	25568	B. M. Canniff	8	"	0 75	B. M. Canniff	
<i>District of British Columbia—E. B. Parkinson, Inspector.</i>											
Aug.	16	Tincture Ginger.		1	26993	D. E. Campbell, Victoria.	9	ozs.	0 60	D. E. Campbell, Victoria.	
"	16	"		2	26994	Terry & Marrett	9	"	0 75	Terry & Marrett	
"	17	"		3	28008	T. Muir, New Westminster.	9	"	1 00	T. Muir, New Westminster.	
"	16	"		4	26997	Hall & Co., Victoria.	9	"	0 75	Hall & Co., Victoria.	
"	17	"		5	27000	McDowell, Atkins, Watson Co., Vancouver.	9	"	1 00	McDowell, Atkins, Watson Co., Vancouver.	
"	17	"		6	28001	W. M. Harison & Co., Vancouver.	9	"	0 75	W. M. Harison Vancouver.	
"	17	"		7	28002	Nelson, Macpherson & Sutherland, Vancouver.	9	"	0 75	Evans & Sons, Liverpool, Eng.	
"	17	Essence		8	28003	John Reed, Vancouver.	9	"	1 00	John Reed, Vancouver.	
"	17	Tincture		9	28005	D. S. Curtis, New Westminster.	9	"	1 00	D. S. Curtis, New Westminster.	

TABLE II.—INSPECTION OF TINCTURE OF GINGER.
RESULT OF ANALYSIS.

District.	Serial Number.	Collector's Number	Specific Gravity of Sample.	Specific Gravity of Distillate.	Difference.	Alcohol p.c. by Weight.	Alcohol p.c. by Volume.	Opinion.
Nova Scotia . . .	3	27073	·8416	·8345	·0071	85·46	89·84	Genuine.
	5	27089	·8298	·8291	·0007	87·54	91·43	"
	6	27090	·8351	·8304	·0047	87·04	91·05	"
	7	27091	·8393	·8377	·0016	84·20	88·86	"
	8	27092	·8247	·8194	·0053	91·21	94·15	"
	9	27093	·8295	·8239	·0056	89·58	92·97	"
	10	27097	·8347	·8160	·0187	92·44	95·03	"
	2	24055	·8312	·8308	·0034	86·88	90·93	"
	5	24062	·8306	·8279	·0027	88·00	91·78	"
	8	24109	·8357	·8304	·0053	87·04	91·05	"
P.E. Island. . . .	1	29004	·8414	·8325	·0089	86·23	90·43	"
Quebec	10	29042	·9013	·8882	·0131	63·17	90·69	"
St. Hyacinthe	1	24778	·9141	·8935	·0206	60·88	68·52	Below strength in alcohol ; adulterated.
"	2	24779	·8459	·8449	·0010	81·40	86·64	Genuine.
	4	24781	·8752	·8692	·0060	71·17	77·93	Below strength in alcohol ; adulterated.
	6	24783	·8980	·8959	·0021	59·87	67·57	" "
	7	24784	·8607	·8582	·0025	75·95	82·12	Slightly below strength ; doubtful.
	1	26831	·8314	·8308	·0006	86·88	90·93	Genuine.
	2	26832	·8487	·8481	·0006	80·08	85·56	"
	4	26834	·8281	·8255	·0026	88·96	92·51	"
Montreal	5	26835	·8509	·8460	·0049	80·96	86·28	"
	6	26836	·8330	·8266	·0064	88·52	92·18	"
	7	26837	·8853	·8826	·0027	65·58	72·92	Below strength in alcohol ; adulterated.
	8	26838	·8794	·8781	·0013	67·50	74·67	" "
	9	26839	·8342	·8340	·0002	85·65	89·99	Genuine.
	10	26840	·8649	·8629	·0020	73·83	80·26	Below strength in alcohol ; adulterated.
	1	28407	·8466	·8420	·0046	82·54	87·55	Genuine.
	2	28408	·8410	·8377	·0033	84·20	88·86	"
	3	28510	·8695	·8628	·0067	73·88	80·30	Below strength in alcohol ; adulterated.
	7	28519	·8331	·8301	·0030	87·15	91·14	Genuine.
Toronto	8	28521	·8302	·8267	·0035	88·48	92·15	"
	10	28524	·8463	·8414	·0049	82·77	87·73	"
	1	28414	·8517	·8422	·0095	82·46	87·49	"
	2	28417	·9576	·9572	·0004	30·33	36·57	Below strength in alcohol ; adulterated.
	3	28420	·8936	·8900	·0036	62·36	69·92	" "
	5	28430	·8301	·8275	·0026	88·16	91·90	Genuine.
	6	28432	·8914	·8797	·0117	66·83	74·05	Below strength in alcohol ; adulterated.
	7	28433	·8280	·8259	·0021	88·80	92·39	Genuine.
	8	28439	·8371	·8317	·0054	86·54	90·67	"
	9	28441	·8335	·8308	·0027	86·88	90·93	"
London	10	28446	·8303	·8275	·0028	88·16	91·90	"
	2	22397	·8585	·8544	·0041	77·54	83·46	Slightly below strength ; doubtful.
	3	22415	·8691	·8684	·0007	71·50	78·22	Below strength in alcohol ; adulterated.
	6	22413	·8285	·8251	·0034	89·12	92·63	Genuine.
	1	25554	·8975	·8958	·0017	59·91	67·61	Below strength in alcohol ; adulterated.
Manitoba	2	25555	·8263	·8251	·0012	89·12	92·63	Genuine.
	3	25557	·8285	·8194	·0091	91·21	94·15	"
	4	25558	·8504	·8491	·0013	79·68	85·23	"
	5	25560	·8913	·8878	·0035	63·35	70·85	Below strength in alcohol ; adulterated.

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TABLE II.—INSPECTION OF TINCTURE OF GINGER—*Concluded.*
RESULT OF ANALYSIS—*Concluded.*

District.	Serial Number.	Collector's Number	Specific Gravity of Sample.	Specific Gravity of Distillate.	Difference.	Alcohol p.c. by Weight.	Alcohol p.c. by Volume.	Opinion.
Manitoba— <i>Con.</i> ..	6	25563	·8462	·8393	·0069	83·58	88·37	Genuine.
	7	25564	·9521	·9414	·0107	39·10	46·37	Below strength in alcohol ; adulterated.
	8	25566	·8311	·8283	·0028	87·85	91·66	Genuine.
	9	25567	·8321	·8308	·0013	86·88	90·93	"
	10	25568	·8222	·8128	·0094	93·63	95·87	"
Calgary								
British Columbia..	2	26993	·8476	·8468	·0008	80·63	86·01	"
	3	26994	·8285	·8255	·0030	88·96	92·51	"
	4	28008	·8338	·8312	·0026	86·73	90·82	"
	5	26997	·8304	·8251	·0053	89·12	92·63	"
	6	27000	·8268	·8202	·0066	90·93	93·95	"
	7	28001	·8282	·8207	·0075	90·75	93·82	"
	8	28002	·8461	·8427	·0034	82·27	87·34	"
	10	28005	·8385	·8358	·0027	84·96	89·46	"

TABLE III.—INSPECTION OF ESSENCE OF GINGER.
RESULT OF ANALYSIS.

District.	Serial Number.	Collector's Number	Specific Gravity of Sample.	Specific Gravity of Distillate.	Difference.	Alcohol p.c. by Weight.	Alcohol p.c. by Volume.	Opinion.
Nova Scotia	1	27060	·9313	·9282	·0031	45·46	53·15	Equivalent alcoholic str'gth to the tincture.
	2	27061	·8404	·8358	·0046	84·96	89·46	
New Brunswick...	4	27088	·8250	·8173	·0077	91·96	94·69	" "
	1	24060	·8747	·8692	·0055	71·17	77·93	Equivalent to tincture.
	7	24088	·8219	·8190	·0029	91·36	94·26	
P. E. Island	9	24107	·8311	·8297	·0014	87·31	91·25	" "
	1	24500	·8291	·8267	·0024	88·48	92·15	" "
	2	28201	·8291	·8240	·0051	89·54	92·94	" "
	3	28205	·8320	·8308	·0012	86·88	90·93	" "
	4	28208	·9414	·9388	·0026	40·40	47·78	"
	5	28210	·9683	·9621	·0062	27·14	32·90	
Quebec.	6	28212	·8341	·8329	·0012	86·08	90·32	" "
	6	29031	·9272	·9220	·0052	48·27	56·07	"
St. Hyacinthe	9	29041	·8262	·8255	·0007	88·96	92·51	
	5	24782	·8354	·8325	·0029	86·23	90·43	" "
	8	24785	·8696	·8596	·0100	75·32	81·56	"
Montreal.	9	24786	·8262	·8255	·0007	88·96	92·51	
	3	26833	·8745	·8629	·0116	73·83	80·26	"
Kingston	4	28512	·8401	·8337	·0064	85·77	90·08	
	6	28517	·8372	·8304	·0068	87·04	91·05	" "
	9	28523	·8524	·8481	·0043	80·08	85·56	" "
Toronto	4	28424	·8551	·8531	·0020	78·08	83·91	Nearly equivalent to tincture.
London								
Manitoba								
Calgary								
British Columbia..	9	28003	·8412	·8382	·0030	84·00	88·70	Equivalent to tincture.

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TABLE IV.—INSPECTION OF EXTRACT OF GINGER.

RESULT OF ANALYSIS.

District.	Serial Number.	Collector's Number	Specific Gravity of Sample.	Specific Gravity of Distillate.	Difference.	Alcohol p.c. by Weight.	Alcohol p.c. by Volume.	Opinion.
Nova Scotia								
New Brunswick...	3	24069	·9406	·9396	·0010	40·00	47·35	Equivalent to tincture.
	4	24070	·9686	·9667	·0019	23·85	29·04	
	6	24066	·9060	·8959	·0101	59·87	67·57	
	10	24108	·8537	·8504	·0033	79·16	84·80	
P. E. Island	7	28216	·9545	·9375	·0170	41·05	48·48	
	8	28220	·9536	·9381	·0155	40·75	48·16	
	9	28224	·9299	·9278	·0021	45·64	53·34	
	10	28232	·9120	·9091	·0029	53·96	61·79	
Quebec.	2	29016	·9963	·9683	·0280	22·62	27·59	
	3	29019	·8823	·8817	·0006	65·96	73·26	
	4	29028	·8315	·8295	·0020	87·38	91·31	" "
	5	29029	·8316	·8297	·0019	87·31	91·25	" "
	7	29034	·9424	·9396	·0028	40·00	47·35	
	8	29036	·9720	·9668	·0052	23·77	28·95	
St. Hyacinthe	3	24780	·9410	·9324	·0086	43·52	51·12	
Montreal								
Kingston	5	28515	·8330	·8279	·0051	88·00	91·78	" "
Toronto								
London	1	22403	·8419	·8389	·0030	87·62	91·49	" "
	4	22411	·9737	·9624	·0113	26·93	32·65	
	5	22412	·9603	·9562	·0041	30·89	37·20	
	7	22378	·9445	·9407	·0038	39·45	46·75	
	8	22386	·9540	·9480	·0060	35·50	42·40	
	9	22391	·9724	·9713	·0011	20·25	24·78	
	10	22409	·8756	·8744	·0012	69·04	76·05	
Manitoba..								
Calgary								
British Columbia..								

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MEMORANDA REGARDING THE FOREGOING.

ALCOHOLIC PREPARATIONS OF GINGER.

Alcoholic preparations of ginger appear under three distinct names in the Canadian market, viz :—

Tincture of Ginger.
Essence of Ginger.
Extract of Ginger.

The first of these is the only one which has an official and legal status. It is the *Tinctura Zingiberis* of the British Pharmacopœia.

The latest (1898) edition of the Pharmacopœia defines Tincture Zingiberis as follows :—

Ginger, in No. 40 powder, 2 ounces.
Alcohol (90 per cent), a sufficient quantity.

Moisten the powder with two fluid ounces of the alcohol, and complete the percolation process. The resulting tincture should measure one pint.

This gives a solution of 1 in 10.

Earlier editions of the B.P. prescribed the use of Rectified Spirit, instead of 90 per cent alcohol ; and 12·5 parts ginger to 100 volumes of tincture ; being a solution of 1 in 8. Rectified Spirit, as now defined by the Pharmacopœia, is 90 per cent alcohol. The older editions defined it as 88·76 per cent alcohol.

	Specific Gravity.	Alcohol p.c.
Rectified Spirit of 1898.....	0·834	90·00
“ “ Older Editions....	0·838	88·76

This slight difference in strength makes no important change in the character of the tincture. The decreased weight of ginger employed since 1898, will naturally reduce the amount of oleo-resin in solution.

According to *Siggins* (The National Dispensatory) the amounts of oleo-resins dissolved by alcohol, from different varieties of ginger to 1 in 10 solution, are as follows :

Jamaica Ginger (unbleached)	0·48
“ “ (bleached)	0·50
East India Ginger	0·66
African “	0·62 to 0·70

(parts by weight of oleo-resin in 100 volumes of the tincture).

C. G. Moor (Suggested Standards, etc., p. 140) quotes many authorities on this point, who find numbers varying from 0·29 to 0·68 per cent. *T. Barclay* (Pharm. Journal, Dec. 1898) proposes 0·40 per cent as a standard

In six samples of tincture of ginger reported in Bulletin 34 (1893) of this laboratory, the following solids per cent were found :—

Tincture	11859	gave	1·17	per cent	residue.
“	11872	“	0·82	“	“
“	11864	“	0·467	“	“
“	11880	“	0·48	“	“
“	11871	“	0·58	“	“
F. W. Fletcher &c.	“	0·40	“	“	“

It is natural that the amount of resins in solution should vary with the character of the ginger rhizome used, as well as with the strength of the alcohol, and the time during which the solvent is permitted to act upon the ginger. In order to study the influence of time, in this regard, I made nine tinctures, after the directions of the British Pharmacopœia, allowing the solvent to act during periods of 20, 44, and 68

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hours ; and employing three different samples of ginger (known in the table as I, II and III) obtained from dealers in Ottawa and ground in the laboratory.

In the fifth column of the subjoined table, I have entered a number which is the difference between the specific gravity of the tincture, and that of the alcohol distilled from the tincture. One would expect this difference to bear some definite relation to the quantity of oleo-resin in solution. It is, however, apparent that errors of experiment, introduce variations which greatly militate against the employment of this number as an index to quantity of resin in solution.

Description of Samples. — Alcohol used.	Time of Macera- tion. — Hours.	Specific Gravity of Tincture.	Specific Gravity of Dis- tillate. — ·8337	Difference.	Dry Residue per cent.	Alcohol per cent by weight. — 85·77	Alcohol per cent by volume. — 90·08	Loss of Alcohol per cent by volume.
I.....	20	·8356	·8341	·0015	0·260	85·62	89·96	0·12
II.....	20	·8368	·8349	·0019	0·423	85·31	89·72	0·36
III.....	20	·8362	·8342	·0020	0·337	85·58	89·93	0·15
I.....	44	8372	·8354	·0018	0·328	85·12	89·58	0·50
II.....	44	·8377	·8365	·0012	0·499	84·68	89·24	0·84
III.....	44	·8371	·8358	·0013	0·319	84·96	89·46	0·62
I.....	68	·8377	·8358	·0019	0·284	84·96	89·46	0·62
II.....	68	·8380	·8373	·0007	0·460	84·36	88·98	1·10
III. ...	68	·8381	8362	·0019	0·420	84·80	89·33	0·75

An examination of this table shows the following :—

- 1. Ninety per cent alcohol dissolves from 0·3 to 0·4 parts by weight of resin per 100 measures of tincture, in about three days, at ordinary temperature.
- 2. The amount dissolved after the first period of 24 hours is very small.

		Dissolved in 20 hours.	Dissolved in 68 hours.	Difference.
Sample	I.....	0·260	0·328	·068
"	II	0·423	0·499	·076
"	III.....	0·337	0·420	·083

- 3. Difference in gravity between tincture and distillate give no satisfactory indication of the amount of resin dissolved.
- 4. The specific gravity of a good tincture should be about 0·835 to 0·838. *Moor* (loc. cit.) quotes the gravity as 0·835 to 0·840.
- 5. The loss of alcohol in making the tincture need not exceed 1 per cent.

In interpreting the numbers entered in table II, I have allowed for a possible loss of 5 per cent of alcohol, due to manufacture and to keeping the prepared tincture. With ordinary precaution it would seem quite possible to prevent a loss of more than 2 or 3 per cent. With loss of alcohol, due to evaporation or dilution, resins are thrown out of solution, and the strength of the tincture is correspondingly reduced. The tincture becomes cloudy and turbid ; and I learn that it is usual to filter the tincture in order to render it clear. This, of course, means the removal of the resins in excess of the quantity soluble in the weaker alcohol.

Essence of Ginger (see Table III) is not recognized by the British Pharmacopœia of 1898. In earlier editions a *Tinctura Zingiberis Fortior*, ordinarily called essence of ginger, was defined as ‘Ginger percolated with alcohol, to form 1 in 2.’ This strong solution of the oleo-resin of ginger could be employed, by dilution with alcohol, to prepare the ordinary tincture.

Extract of Ginger (see Table IV) has no official recognition. Its character, as found on the Canadian market, will appear from the recorded analyses in Table IV. While *Essence of Ginger* is quite frequently up to the strength of the official tincture, (70 per cent of the samples now reported reaching this standard) the extract of ginger is usually very weak in alcohol ; (only 31 per cent of the samples now reported reach the standard of official tincture).

Of 62 samples of tincture of ginger reported in table II, I find :—

Genuine.....	46 samples	=	74·2 per cent
Doubtful.....	2	"	= 3·2 "
Adulterated.....	14	"	= 22·6 "
Total		62	

The term ‘adulterated’ has reference to the alcoholic strength only.

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APPENDIX F.**BULLETIN No. 111.—OLIVE OIL.**

OTTAWA, ONT., October 19, 1905.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—In accordance with your instructions a collection of samples of olive oil (salad oil) was made in the months of August and September last. A report concerning these oils has been addressed to me by Mr. A. McGill, who, during my absence, was Acting Chief Analyst, which report I beg now to transmit, recommending its publication as Bulletin No. 111.

I have the honour to be, sir,

Your obedient servant,

THOMAS MACFARLANE,
Chief Analyst.

OTTAWA, ONT., October 18, 1905.

THOS. MACFARLANE, Esq.,
Chief Analyst.

DEAR SIR,—I beg to hand you a report upon 108 samples of salad oils, with accompanying tables.

Olive oil is a very important food in the countries of Southern Europe and although for the most part replaced by butter in Canada, is still largely in use for the making of salads. The ordinary purchaser of salad or table oil, supposes himself to be buying olive oil. The terms 'Olive Oil' and 'Salad Oil' are synonymous with most people.

On account of its cheapness cotton seed oil is largely substituted for olive oil by purveyors; and it is quite certain that many retail dealers furnish cotton seed oil to their customers without knowing that they do so. The difficulty is increased by the fact that cotton seed oil is frequently put up in bottles which resemble the peculiar form long adopted by certain large manufacturers of olive oil, and even the labels are made to appear very similar. An example in point is the following: in which it is quite apparent that a studied attempt is made to simulate the label of Barton & Gues-tier.

While it is certain that cotton seed oil lacks the peculiar flavour of olive oil, it is probable that, so far as food value goes, it may be little inferior to that article. Certain highly refined grades of cotton seed oil may be regarded as valuable foods; and as these take the place of olive oil in the making of salads, it is perhaps not unnatural that they

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should be termed salad oils. It is, however, much to be regretted, that such brands of cotton seed oil are not sold under some characteristic name, such as cotton seed salad oil, thus making their fraudulent sale impossible.



When a salad oil is asked for, the sale of cotton seed oil, properly refined, cannot be called adulteration; but when the article offered is plainly named as olive oil, the substitution of cotton seed oil in whole or in part is, of course, a case of adulteration.

The accompanying tables give the results of examination of 108 samples of salad oils. Of this number 84 were sold as olive oil; and 24 were merely termed 'Salad Oil' by the vendor. Without exception, these last were found to be cotton seed oil. Of the 84 samples sold as olive oil, 16 are found to be cotton seed oil, and, of course, these fall into the class 'Adulterated under the Act'. Of the remainder, two give somewhat doubtful reactions, probably due to long keeping. The remaining 66 samples are genuine olive oil. The samples now reported may be classified as follows:—

Genuine olive oil.....	66 samples.
Doubtful ".....	2 "
Cotton seed oil, sold as salad oil	24 "
" sold as olive oil.....	16 "
Total	108

Of course, only those of the last class can be legally considered as adulterated.

Yours truly,

A. MCGILL.

October 18, 1905.

TABLE I.—INSPECTION OF OLIVE OIL (SALAD OIL)—AUGUST, 1905.

Date of Collec- tion.	Nature of Sample.	Serial Number.	Collector's Number.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by Vendor.	Inspector's Report.
					Quantity.	Value.		
						\$ cts.		
Aug. 15	Olive Oil	1	27063	A. V. Rand, Wolfville, N.S.	3 btls.	0 75	J. Plaginel, France.	
" 15	"	2	27064	F. C. Churchill "	3 "	0 50	Brown & Webb, Halifax.	
" 17	"	3	27079	R. B. Adams & Co., Halifax.	3 "	0 60	Lazenby & Son, England ...	
" 17	"	4	27083	C. E. Choat & Co. "	3 "	0 45	Crosse & Blackwell, England.	
" 18	"	5	27087	Dillon Bros. "	3 "	0 75	Barton & Guestier, France.	
" 18	"	6	27094	H. W. Wentzell "	3 "	0 45	C. H. Binks, Montreal.	
" 18	"	7	27095	E. W. Crease "	3 "	0 60	Crosse & Blackwell, England ...	
" 18	"	8	27096	R. N. McDonald "	3 "	0 75	E. Lazenby & Son "	
" 18	"	9	27098	Jas. Scott & Co. "	3 "	0 60	Laronde frères, France	
" 18	"	10	27099	W. C. Anderson "	3 "	0 75	E. Lazenby & Son, England.	
				<i>District of New Brunswick— J. C. Ferguson, Inspector.</i>				
Aug. 15	Olive Oil (salad) 'Vestal.'	1	24056	The Canadian Drug Co., Ltd., 27 and 29 Mill St., St. John, N.B.	3 btls.	1 50	Imported by vendors from France. . .	Brand of oil, 'Vestal.'
" 16	Olive Oil (salad) 'Lucca.'	2	24059	W. A. Porter, 215 Union St., St. John, N.B.	3 "	0 60	Lazenby's, London, England	" 'Lucca.'
" 18	Olive Oil.	3	24068	McPherson Bros., 181 Union St., St. John, N.B.	3 "	1 05	E. & A. Jonas, Hanart Auzin (word) et Bruxelles.	
" 19	"	4	24071	Thomas J. Dean, No. 80, cor. Wall St. and City Road.	3 "	0 60	Crosse & Blackwell, London, England.	
" 17	"	5	24064	Vanwart Bros., cor. Charlotte and Duke Sts., St. John, N.B.	3 "	1 20	Henri Jonas & Co., Montreal, Que.	
" 17	"	6	24067	Puddington & Merritt, 55 Charlotte St., St. John, N.B.	3 "	0 90	Hudon, Hebert & Co.	
" 24	"	7	24082	Estate of E. J. Smith, Main St., Shediac, Westmoreland Co., N.B.	3 "	0 30	E. Loubon, Nice, France	
Sept. 2	"	8	24110	T. B. Barker & Sons, 57 and 59 Dock St., St. John, N.B.	3 "	0 60	T. B. Barker & Sons, 57 and 59 Dock St., St. John, N.B.	
" 2	"	9	24111	Ernest E. McMichael, 49 Dock St., St. John, N.B.	3 "	0 45	C. H. Binks, Montreal, Que.	
" 2	Olive Oil (salad) 'Lucca.'	10	24112	J. & F. Watson, 399 cor. Elm and Main Sts., St. John, N.B., north end.	3 "	0 75	E. Lazenby & Son, Ltd., 18 Trinity St., London, England.	" 'Lucca.'

TABLE I. INSPECTION OF OLIVE OIL (SALAD OIL) AUGUST, 1905 *Continued.*

Date of Collection.	Nature of Sample.	Serial Number.	Collector's Number.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by Vendor.	Inspector's Report.
					Quantity.	Value.		
District of Prince Edward Island— T. Moore, Inspector.								
Aug. 12	Olive Oil.	1	24499	J. G. Jamieson, Charlottetown	1 pt.	0 64	Brown & Webb, Halifax, N.S.	
" 12	"	2	28203	A. W. Reddin "	1 "	0 64	Lynan, Sons & Co., Montreal.	
" 12	"	3	28206	G. E. Hughes "	1 "	0 64	Evans & Son, Montreal.	
" 15	"	4	28209	Johnson & Johnson "	1 "	0 80	Lynan, Sons & Co., Montreal.	
" 15	"	5	28211	McDonald & McKinnon "	1 "	1 60	Evans & Son, Montreal.	
" 16	"	6	28217	John Knight, Georgetown.	1 "	0 45	"	
" 17	"	7	28223	Ruben Tuplin, Kensington.	1 "	0 35	Imperial Oil Co., Halifax.	
" 18	"	8	28227	Waugh & Steeves, Summerside.	1 "	0 32	Simpson Bros., Halifax.	
" 18	"	9	28229	P. N. Enman "	1 "	0 64	Brown & Webb "	
" 18	"	10	28233	R. T. Holman "	1 "	0 35	Imperial Oil Co. "	
District of Quebec—C. E. Roy, Inspector.								
Sept 11	Salad Oil.	1	29005	Ed. Morin & Co., Mountain Hill	4 doz.	0 26	Wm. Patterson, Montreal.	
" 14	"	2	29037	Drouin et frère, 37 St. Andre.	1 "	0 30	Billehouse, Dillon & Co., Montreal.	
" 15	"	3	29021	A. E. Vallerand, Quebec . . . . .	. . . . .	0 25	N. K. Fairbank Co. "	
" 18	"	4	29022	A. Joseph & Son, Quebec. . . . .	. . . . .	0 30	Ed. Morin et Cie, Quebec.	
" 18	"	5	29024	Peclere & Letellier, Quebec. . . . .	. . . . .	0 13	Southern Oil Co., Savannah.	
" 19	"	6	29027	G. & Ed. Couture, Lévis . . . . .	. . . . .	0 15	Henri Jonas, Montreal	
" 20	"	7	29030	W. Brunet Cie, Quebec. . . . .	. . . . .	0 30	Robert Cream Co., Quebec.	
" 19	"	8	29038	J. Buchanan, Lévis. . . . .	. . . . .	0 20	C. H. Binks Co., Montreal	
" 21	"	9	29032	Turcotte et frère, Quebec. . . . .	. . . . .	0 15	" "	
" 22	"	10	29039	O. Carrigan et fils, Three Rivers. . . . .	. . . . .	0 20	Henri Jonas Co. "	
District of St. Hyacinthe—J. C. Rouleau, Inspector.								
Aug. 23	Olive Oil.	1	24768	E. Dion, Valleyfield.	3 btls.	0 30	E. Loubon Milan, Montreal.	
" 23	"	2	24769	G. E. Brown, Pt. Fortune.	3 "	0 45	Evans & Sons "	
" 24	"	3	24770	Theophile Ross, Buckingham.	3 "	0 75	L. Chaput & fils "	
" 29	"	4	24771	Robert & Cie, St. Jerome.	3 "	0 30	Not known.	
" 31	"	5	24772	A. Francœur & Cie, Sorel.	1 pint.	0 40	H. Petissier, Aix en Provence, France.	
Sept. 1	"	6	24773	Julien Courteau, Nicolet	3 btls.	0 30	E. Loubon, Nice, France.	
" 6	"	7	24774	Rayman & frères, St. Hyacinthe.	3 "	0 70	Barton & Guestier, Bordeaux, France.	

"	6	"	8	24775	Pharmacie St. Hyacinthe, St. Hyacinthe.	3	0 30	Baron & Gauthier	"	.....
"	6	"	9	24776	Pagnuelo & frères, St. Hyacinthe.....	3	0 25	Johnston	"	.....
"	6	"	10	24777	O. Brodeur "	3	0 25	A. Puget, Marseilles, France.....			
14	Aug.	24	1	26821	P. Laurandean, 159, St. Paul St	1 pint.	0 20	Union Oil Co., Providence, R.I	.....	Sample 26821 was sold as olive oil, but after purchase vendor stated it was sold him as Union Salad oil.	
"	26	"	2	26822	Dr. Lapalme, St. Anns, Bellevue, P.Q....	1 "	0 40	Not known	.....	
"	26	"	3	26823	G. Daoust "	1 "	0 16	"	.....	
"	28	"	4	26824	E. Masse, 41 St. Antoine St., Montreal ..	1 "	0 14	"	.....	Sold as olive oil of common quality.	
"	28	"	5	26825	A. D. Mann, 201 " ..	1 "	0 50	Lyman, Sons & Co., Montreal	.....	
"	31	"	6	26826	Hercule Guérin, 2309 Notre-Dame, Montreal.	1 "	0 50	Not known.	.....	
"	31	"	7	26827	Co-operative Grocery Co., 293 St. Antoine St., Montreal.	1 btl.	0 40	Crosse & Blackwell, London, Eng.	.....	Pure Lucca oil.	
"	31	"	8	26828	Murphy Bros., 2607 St. Catherine St., Montreal.	1 "	0 45	Barton & Giestier, France.	.....	
"	31	"	9	26829	Murphy Bros., 2607 St. Catherine St., Montreal.	3 "	0 30	Not known	.....	Labelled 'Olie Virgine,' Sold as olive oil.	
"	31	"	10	26830	W. H. Chapman, 2601 St. Catherine St., Montreal.	1 pint.	0 50	"	.....	
Aug.	16	Olive Oil (salad).	1	28402	Jos. Valiquette, 319 Dalhousie St., Ottawa	1 pint.	0 20	Queen City Oil Co., Ottawa	.....	Bulk oil.	
"	16	"	2	28404	W. H. Rogers, Rideau St., Ottawa.	1 "	0 60	Not known	.....	
"	22	"	3	28525	Hopkinson, Brock St., Kingston.....	1 "	0 75	Crosse & Blackwell, London, Eng.	.....	
"	22	"	4	28526	J. S. Henderson, Brock St., Kingston	1 "	1 50	Lipton, London.	.....	
"	22	"	5	28527	Rigney Hickey, Princess St.	1 "	0 65	Clarifee	.....	Not sold as pure olive oil.	
"	22	"	6	28528	James Redden " "	1 "	0 75	Crosse & Blackwell, London, Eng.	.....	
"	22	"	7	28529	G. W. Mahood " "	1 "	0 80	Not known	.....	
"	22	"	8	28530	James Kelly " "	1 "	0 25	"	.....	Not sold as pure olive oil.	
"	22	"	9	28531	D. Couper " "	1 "	0 75	Crosse & Blackwell, London, Eng.	.....	
"	22	"	10	28532	B. J. Lealy, King St.	1 "	0 90	Denise	.....	
Aug.	25	Olive Oil (salad).	1	28413	J. Blood, 419 Yonge St., Toronto.....	1 pint.	0 50	Crosse & Blackwell, London, Eng.	.....	
"	25	"	2	28416	J. F. Morrish, 237 Yonge St., Toronto...	1 "	0 70	Los Angels Olive Growers Association	.....	
"	25	"	3	28419	J. Lindala, 159 York St.	1 "	0 40	Lyman Bros., Toronto...	.....	
"	25	"	4	28423	Gibb Bros., 1174 Yonge St.	1 "	0 50	B. Fougé, Bordeaux, France.....	.....	
"	26	"	5	28426	G. Gates, Oakville.....	1 "	0 50	Crosse & Blackwell, London, Eng.	.....	

TABLE 1. INSPECTION OF OLIVE OIL (SALAD OIL)—AUGUST, 1905—*Concluded.*

Date of Collection.	Nature of Sample.	Serial Number.	Collector's Number.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by Vendor.	Inspector's Report.
					Quantity.	Value.		
District of Toronto—A. E. Sanderson, Acting Inspector—Con.					\$	cts.		
Aug. 26	Olive Oil (salad).	6	28431	J. R. Byers, Oakville	1 pint.	0 60	Not known	
" 28	" "	7	28434	John Mack, 1 James St., N., Hamilton ..	1 "	0 50	"	
" 28	" "	8	28440	W. J. O'Brien, 94 "	1 "	0 60	E. Loubon, Nice, France	
" 28	" "	9	28444	W. B. Smith, 245 King St., E. "	1 "	0 30	Not known	
" 28	" "	10	28447	H. W. Ralph, Dundas, Ont.	1 "	0 40	J. Winer, wholesale druggist	
District of London—T. Kidd, Inspector.								
Aug. 22	Olive Oil.	1	22401	Charles Nairn, Goderich.....	3 btls.	1 00	Olive Growers Association, California...	Sylmar brand.
" 17	"	2	22395	Charles Stephens, Collingwood.....	3 "	0 70	Lipton Co., Ltd., London, England	
" 17	"	3	22396	Jewry & Gregory "	3 "	0 70	Sanders & Evans, Toronto.....	
" 24	"	4	22414	John Garvey, London, Ont.	3 "	0 50	Dandelle & Gauden, Bordeaux, France ..	
" 24	"	5	22410	John Lawson "	3 "	0 90	Barton & Guestier, Bordeaux, France ..	
" 14	"	6	22380	H. G. Lemon, Harrison.....	3 "	0 65	Crosse & Blackwell, London, England ..	
" 15	"	7	22383	G. A. Woodhouse, Walkerton.....	3 "	0 75	J. Winer & Co., Hamilton, Ont.	
" 12	"	8	22374	Cardino Bros., Seaforth.....	3 "	0 75	Reimu & Co., Bordeaux, France	
" 15	"	9	22385	W. A. McClean, Owen Sound.....	3 "	0 70	Perkins, Ince & Co., Toronto	
" 16	"	10	22392	Thomas McCarrol, Meaford.....	3 "	0 75	Sanders & Evans, Toronto	
District of Manitoba—W. M. Conklin, Inspector.								
Sept. 11	Olive Oil.	1	25574	K. McKenzie & Co., Winnipeg	1 pint.	0 35	Crosse & Blackwell, London, England	
" 11	"	2	25575	Campbell Bros. & Wilson, Winnipeg.....	2 btls.	0 25	The Bole Drug Co., Winnipeg	
" 11	"	3	25577	G. F. J. Galt, Winnipeg.....	2 "	0 25	F. F. Dalley & Co., Hamilton	
" 12	"	4	25578	Foley, Lock & Larson, Winnipeg	1 pint.	0 45	Fratilic & Alfonse, Bordeaux, France	
" 12	Salad Oil	5	25579	Jobin, Marrin & Co. "	2 btls.	0 20	Glazer Kohn, Chicago, U.S.A.	
" 12	Olive Oil	6	25580	Hudson Bay Co. "	1 pint.	0 50	Goldberg, Bowen & Co., San Francisco..	
" 12	Salad Oil	7	25581	The Bole Drug Co. "	1 "	0 10	Swift & Co., Chicago	This sample was disputed after sample had been taken.
" 13	Lucca Oil.....	8	25582	A. R. Christie "	2 btls.	0 50	G. F. Sutton, Son & Co.	
" 14	Olive Oil	9	25593	The Gordon Mitchell Drug Co., Winnipeg	1 pint.	0 40	Polson & Co., Kingston, Ont.	
" 14	"	10	25594	J. G. Snider Drug Co., Winnipeg.....	1 "	0 55	Martin, Bole, Wynne & Co., Winnipeg..	

TABLE II.—INSPECTION OF OLIVE OIL—(SALAD OIL).

District.	Serial Number.	Collector's Number	RESULTS OF ANALYSIS.						Opinion.
			Refractive Index at 15.5°C.	Specific Gravity at 15.5°C.	Iodine Number	Nitric Acid Colour Test.	Halpen's Colour Test.	Name under which Sold.	
Nova Scotia	1	27063	1.4695	0.913	79.6	Green	No colour...	Olive oil.....	Genuine olive oil.
	2	27064	1.4693	0.915	.....	.....	.....	"	"
	3	27079	1.4702	0.915	.....	.....	.....	"	"
	4	27083	1.4704	0.915	.....	.....	.....	"	"
	5	27087	1.4700	0.916	.....	.....	.....	"	"
	6	27094	1.4704	0.918	.....	.....	.....	"	"
	7	27095	1.4706	0.917	.....	.....	.....	"	"
	8	27096	1.4697	0.915	.....	.....	.....	"	"
	9	27098	1.4696	0.914	.....	.....	.....	"	"
	10	27099	1.4703	0.918	.....	.....	.....	"	"
New Brunswick	1	24056	1.4706	0.915	.....	.....	.....	"	"
	2	24059	1.4700	0.918	.....	.....	.....	"	"
	3	24068	1.4705	0.916	.....	.....	.....	"	"
	4	24071	1.4707	0.916	.....	.....	.....	"	"
	5	24064	1.4694	0.914	.....	.....	.....	"	"
	6	24067	1.4705	0.916	.....	.....	.....	"	"
	7	24082	1.4738	0.921	96.4	Brown.....	Red.....	(salad)	Cotton seed oil.
	8	24110	1.4703	0.918	.....	.....	.....	"	Genuine olive oil.
	9	24111	1.4699	0.912	.....	.....	.....	"	"
	10	24112	1.4706	0.915	.....	.....	.....	"	"
P. E. Island	1	24499	1.4710	0.916	.....	.....	.....	"	"
	2	28203	1.4706	0.910	.....	.....	.....	"	"
	3	28206	1.4704	0.916	.....	.....	.....	"	"
	4	28209	Sample not received.	.....	.....	.....	.....	.....	.....
	5	28211	1.4735	0.921	93.8	Brown.	Red.	Salad oil...	Cotton seed oil.
	6	28217	Sample not received.	.....	.....	.....	.....	.....	.....
	7	28223	1.4691	0.911	.....	.....	.....	Olive oil.....	Genuine olive oil.
	8	28227	1.4696	0.911	93.8	Green-brown	No colour...	"	Doubtful; probably genuine.
	9	28229	1.4708	0.917	90.7	Brown.....	Red.....	"	"
	10	28233	1.4690	0.913	78.3	Brownish...	No colour...	"	Genuine olive oil.
Irec.	1	29005	1.4735	0.925	196.0	Brown.....	Red.....	Salad oil.....	Cotton seed oil.
	2	29037	1.4749	0.918	102.8	"	"	"	"
	3	29021	1.4749	0.920	106.2	"	"	"	"
	4	29022	1.4740	0.918	100.4	"	"	"	"
	5	29024	1.4737	0.918	102.8	"	"	"	"

Hyacinthe	6	29027	1·4736	0·917	100·0	"	"	"	"	"	"	"
	7	29030	1·4738	0·918	104·9	"	"	"	"	"	"	"
	8	29038	1·4738	0·922	108·5	"	"	"	"	"	"	"
	9	29032	1·4740	0·913	103·4	"	"	"	"	"	"	"
	10	29039	1·4798	0·914	102·8	"	"	"	"	"	"	"
	1	24768	1·4738	0·922	109·4	Brown	Red	Olive oil	Adulterated.			
	2	24769	1·4738	0·921	108·5	"	"	Salad oil	Cotton seed oil.			
	3	24770	1·4704	0·916	...	...	...	Olive oil	Genuine olive oil.			
	4	24771	1·4742	0·922	108·5	Brown	Red	"	Adulterated.			
	5	24772	1·4733	0·916	102·0	"	"	"	"			
Montreal	6	24773	1·4733	0·915	103·6	"	"	"	"			
	7	24774	1·4698	0·913	79·9	Green	No colour	"	Genuine olive oil.			
	8	24775	1·4728	0·920	110·1	Brown	Red	Salad oil	Cotton seed oil.			
	9	24776	1·4725	0·921	93·5	"	"	Olive oil	Adulterated.			
	10	24777	1·4725	0·917	90·4	Brownish	Reddish	"	"			
	1	26821	1·4749	0·918	113·7	Brown	Red	See note in Table I.	Cotton seed oil.			
	2	26822	1·4703	0·917	...	...	...	Olive oil	Genuine olive oil.			
	3	26823	1·4745	0·923	105·0	Brown	Red	Salad oil	Cotton seed oil.			
	4	26824	1·4738	0·924	108·5	"	"	See note in Table I.	"			
	5	26825	1·4693	0·915	...	...	...	Olive oil	Genuine olive oil.			
Kingston	6	26826	1·4704	0·917	...	...	...	"	"
	7	26827	1·4703	0·916	...	...	...	"	"
	8	26828	1·4702	0·916	...	...	...	"	"
	9	26829	1·4740	0·923	109·4	Brown	Red	"	Adulterated with cotton seed oil.			
	10	26830	1·4710	0·917	...	...	...	"	Genuine olive oil.			
	1	28402	1·4742	0·924	103·0	Brown	Red	Salad oil	Is cotton seed oil.			
	2	28404	1·4736	0·922	107·0	"	"	Olive oil	Adulterated.			
	3	28525	1·4705	0·916	...	...	...	"	Genuine olive oil.			
	4	28526	1·4703	0·915	...	...	...	"	"
	5	28527	1·4739	0·923	103·9	Brown	Red	Salad oil	Is cotton seed oil.			
Toronto	6	28528	1·4702	0·915	...	...	...	Olive oil	Genuine olive oil.			
	7	28529	1·4705	0·917	...	...	...	"	"
	8	28530	1·4732	0·920	111·6	Brown	Red	Salad oil	Is cotton seed oil.			
	9	28531	1·4705	0·916	...	...	...	Olive oil	Genuine olive oil.			
	10	28532	1·4709	0·913	79·9	Yellowish	Red	"	"			
	1	28413	1·4705	0·913	79·6	Green	No colour	"	"			
	2	28416	1·4700	0·916	...	...	...	"	"
	3	28419	1·4737	0·921	108·5	Brown	Red	Salad oil	Cotton seed oil.			
	4	28423	1·4704	0·917	...	...	...	Olive oil	Genuine olive oil.			
	5	28426	1·4705	0·916	...	...	...	"	"
London	6	28431	1·4710	0·917	...	...	...	"	"
	7	28434	1·4708	0·915	88·9	Green	Nearly colourless.	"	"			
	8	28440	1·4740	0·925	107·0	Brown	Red	"	Adulterated.			
	9	28444	1·4741	0·923	108·8	"	"	"	"			
	10	28447	1·4711	0·915	88·9	Green	Colourless	"	Genuine olive oil.			
	1	22401	1·4706	0·913	79·9	Green	No colour	"	"			
	2	22395	1·4700	0·914	...	...	...	"	"
	3	22396	1·4699	0·914	...	...	...	"	"

TABLE II.—INSPECTION OF OLIVE OIL (SALAD OIL) — *Concluded.*

RESULTS OF ANALYSIS.									
District.	Serial Number.	Collector's Number	Refractive Index at 15.5°C.	Specific Gravity at 15.5°C.	Iodine Number	Nitric Acid Colour Test.	Halpin's Colour Test.	Name under which Sold.	Opinion.
London (Contd.)	4	22414	1.4704	0.916				Olive oil	Genuine olive oil.
	5	22410	1.4708	0.916				"	"
	6	22580	1.4695	0.917				"	"
	7	22383	1.4703	0.916				"	"
	8	22374	1.4705	0.917				"	"
	9	22385	1.4704	0.918				"	"
	10	22392	1.4709	0.917				"	"
	1	25574	1.4696	0.910	79.6	Green.	No colour.	"	"
	2	25575	1.4738	0.923	105.0	Brown.	Pink.	"	Cotton seed oil; adulterated.
	3	25577	1.4739	0.923	106.0	"	"	"	Adulterated.
Manitoba	4	25578	1.4697	0.912	78.7	Green.	No colour.	"	Genuine olive oil.
	5	25579	1.4739	0.923	105.2	Brown.	Pink.	Salad oil.	Is cotton seed oil.
	6	25580	1.4706	0.916	79.2	Green.	No colour.	Olive oil.	Genuine olive oil.
	7	25581	1.4731	0.919	106.4	Brown.	Red	Salad oil.	Is cotton seed oil.
	8	25582	1.4704	0.916	76.5	Green.	No colour.	Olive oil	Genuine olive oil.
	9	25593	1.4701	0.913	81.5	"	"	"	"
	10	25594	1.4695	0.913	79.6	"	"	"	"
	1								
	2								
	3								
British Columbia.	10	26986	1.4738	0.925	107.9	Brown	Red	Olive oil	Adulterated.
	1	26987	1.4760	0.916				"	Genuine olive oil.
	2	26988	1.4740	0.924	110.7	Brown	Red	Salad oil	Is cotton seed oil.
	3	26989	1.4699	0.915				Olive oil	Genuine olive oil.
	4	28007	1.4738	0.922	107.9	Brown	Red	"	Adulterated.
	5	28011	1.4691	0.913				"	Genuine olive oil.
	6	26972	1.4700	0.915				"	"
	7	26981	1.4739	0.920	110.4	Brown	Red	"	Adulterated.
	8	26982	1.4740	0.924	111.3	"	"	Lucca (olive) oil.	"
	9	26996	1.4704	0.915				Olive oil	Genuine olive oil.
10									
(No samples have been received from this district.)									

(No samples have been received from this district.)

SESSIONAL PAPER No. 14

APPENDIX G.**BULLETIN No. 112.—HIGHLY COLOURED CONFECTIONERY.**

OTTAWA, ONT., November 10, 1905.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to submit herewith a tabulated statement of the results of examining 111 samples of highly coloured confectionery which were collected according to your instructions in the months of August and September last.

The chief object in making this collection was to ascertain whether any of the colours used in manufacturing such sweet meats contained mineral impurity, under which term is understood the metals lead and arsenic. It will be seen that the examination resulted in demonstrating the entire absence of these metals. In only one case was the presence of arsenic shown, but in such very minute quantity as to be completely harmless. Other particulars as regards the presence of dyes are given in the tables and the explanations placed over the same by Mr. McGill, who was assisted in the examination by Misses S. E. Wright and E. Davidson.

I have the honour to be, sir,
Your obedient servant,

THOMAS MACFARLANE,
Chief Analyst.

6-7 EDWARD VII., A. 1907

INSPECTION OF HIGHLY

EXPLANATIONS.—(1) The letters P =(Penetrant) and S =(Superficial) are written under the colours found to be soluble in water, and to dye

Date of Collection.	Nature of Sample and Inspector's Report.	No. of Sample.	Name and Address of Vendor.	Cost.	
				Quantity.	Value.
1905.	<i>District of Prince Edward island-- T. Moore, Inspector.</i>			Lbs.	\$ cts.
Aug. 12..	Confectionery.....	24494	Sanderson & Co., Charlottetown...	1	0 12
" 12..	"	24495	W. A. Hutcheson " ..	1	0 10
" 12..	"	24496	A. Gates & Co. "	1	0 10
" 12..	"	28204	Mrs. W. F. Carter "	1	0 16
" 16..	"	28213	A. A. McDonald Bros., George- town.	1	0 10
" 16..	"	28218	W. A. Pool, Lower Montague . . .	1	0 10
" 17..	"	28222	Ruben Tuplin & Co., Kensington..	1	0 10
" 17..	"	28226	D. McKenzie, Kensington.....	1	0 10
" 18..	"	28228	Waugh & Steeves, Summerside	1	0 10
" 18..	"	28231	J. B. Strong, Summerside	1	0 10
	<i>District of Nova Scotia--R. J. Waugh, Inspector.</i>				
Aug. 16..	Sold as a Mixture.....	27068	Wentworth Stores, Windsor.....	1	0 10
" 16..	"	27069	F. Ward, Windsor	1	0 12
" 17..	Sold as Wood Candy.....	27074	W. E. Crowe, Halifax.....	1	0 10
" 17..	Sold as Ribbon Candy.....	27075	S. J. Wilson "	1	0 26
" 17..	Sold as Orange Slices.....	27076	Moir, Son & Co., Ltd., Halifax....	1	0 10
" 17..	Sold as all Day Suckers.....	27077	" " "	1	0 12
" 17..	Sold as a Mixture.	27078	" " "	1	0 12
" 17..	"	27081	A. Hubley, Halifax.	1	0 12
" 17..	Sold as Cocoanut Fritters.....	27084	P. Gaspero "	1	0 12
" 18:	Sold as a mixture.....	27086	Jas. Bowman "	1	0 10
	<i>District of New Brunswick--J. C. Ferguson, Inspector.</i>				
Aug. 14..	Cream Mixture..	24048	J. F. Foley, 427 Main St., St. John, N.B.	1	0 16
" 14..	French Cream Mixture.	24049	J. Murphy. 149 Main St., N.E., Indiantown, St. John.	1	0 30
" 14	Stick Candy	24050	Hamm Bros., 461 Main St., N.E., St. John.	1	0 16
" 14..	Fruit Drops	24051	White Candy Co., 240 & 242 Union St., St. John.	1	0 14
" 14..	Conversation Lozengers.....	24052	Chas. F. Francis & Co., 141 Char- lotte St. .	1	0 20
" 15..	Satin Gloss Chips.....	24053	V. Barkers, Ltd., 104 Princess St., St. John, N.B.	1	0 30
" 23..	Vendor would not sell as pure ...	24079	D. S. Mann & Son, Main St., Petti- codiac, N.B.	1	0 10
Sept. 1..	Jubilee Mixture	24101	Ramsay Bros., 667 Main St., St. John, N.B.	1	0 16
" 1..	Royal Mixture.....	24102	G. J. Hamilton & Sons, 734 Main St., St. John, N.B.	1	0 14
" 1..	Gloria Mixture	24103	McCormick Mfg. Co., 67 Dock St., St. John, N.B.	1	0 16

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COLOURED CONFECTIONERY.

present in the sample. (2) Where no contrary statement is made, these colouring matters have been wool to the tint named from an acid bath.

Name and Address of Manufacturer or Furnisher.	RESULTS OF ANALYSIS.							Mineral Impurity.	No. of Sample.	Remarks.
	Colours present in the Sample.									
	Red.	Pink.	Orange.	Yellow.	Green.	Blue.	Violet.			
Lang Confectionery Co., Mon- treal.	P	P	.....	P	.....	.....	.....	None.	24494	
W. A. Hutcheson, Charlotte- town.	S	.....	.....	S	...	...	S	"	24495	
Ganong Bros., St. Stephen, N.B.	.....	S	.....	.....	.....	.....	.....	"	24496	
Mrs. W. F. Carter, Charlotte- town, P.E.I.	.....	P	.....	P	.....	.....	.....	"	28204	
Hamilton & Sons, Pictou, N.S..	P	S	.....	P	.....	.....	.....	"	28213	
Not known.....	S	.....	.....	P	.....	.....	P	"	28218	
Hamilton & Sons, Pictou, N.S..	P	S	.....	.....	.....	.....	.....	"	28222	
Moir & Sons, Halifax.....	S	.....	.....	.....	.....	.....	.....	"	28226	
White Candy Co., St. John, N.B.	P	.....	.....	S	.....	.....	.....	"	28228	
Lang Manufacturing Co., To- ronto.	.....	P	.....	P	.....	.....	.....	"	28231	
Yeaton & Son, Hantsport, N.S.	P	S	.....	P	.....	.....	.....	None	27068	
Hamilton & Sons, Pictou, N.S..	.....	S	.....	.....	.....	.....	.....	"	27069	
W. E. Crowe, Halifax, N.S. ...	.....	.....	.....	P	.....	.....	.....	"	27074	
S. J. Wilson "	.....	P	.....	.....	.....	.....	.....	"	27075	
Moir, Son & Co., Ltd., Halifax, N.S.	.....	.....	S	.....	.....	.....	.....	"	27076	
" "	.....	S	.....	S	.....	.....	.....	"	27077	Yellow did not dye wool.
" "	P	S	.....	P	.....	.....	.....	"	27078	
O'Brien & Wells, Halifax, N.S.	.....	S	.....	P	.....	.....	.....	"	27081	
P. Gaspero, Halifax, N.S.....	.....	P	.....	.....	.....	.....	.....	"	27084	
Hamilton & Son, Pictou, N.S...	P	P	.....	.....	.....	.....	.....	"	27086	
Thos. Philips, Union St., St. John.	.....	P	.....	.....	.....	.....	.....	None.	24048	
Ganong Bros., St. Stephen.....	.....	S	.....	.....	.....	.....	.....	"	24049	
Hamm Bros., St. John, N.B. ..	.....	.....	.....	S	.....	.....	.....	"	24050	
White Candy Co., 240 & 242 Union St., St. John, N.B. (Wholesale Dept).	.....	P	.....	P	.....	.....	.....	"	24051	Yellow dyes pink shade.
Robertson Bros., Toronto, Ont..	.....	P	.....	P	.....	.....	.....	"	24052	
V. Barker's, Ltd., 104 Princess St., St. John, N.B.	.....	P	.....	P	P	.....	P	"	24053	
Lang Manufacturing Co., Mon- treal.	.....	P	P	P	.....	.....	.....	"	24079	
Ganong Bros., St. Stephen, N.B.	.....	.....	.....	.....	.....	.....	.....	"	24101	No coloured candies.
G. J. Hamilton & Son, Pictou, N.S.	P	S	.....	S	.....	.....	.....	"	24102	
McCormick Manufacturing Co., London, Ont.	.....	P	.....	.....	.....	.....	.....	"	24103	

INSPECTION OF HIGHLY COLOURED

Date of Collection.	Nature of Sample and Inspector's Report.	No. of Sample.	Name and Address of Vendor.	Cost.	
				Quantity.	Value.
1905	<i>District of Quebec—C. E. Roy, Inspector.</i>			Lbs.	\$ cts.
Sept. 12..	Confectionery.....	29006	J. A. Blondeau, 430 St. John St...	1	0 12
" 12..	"	29007	Omer Lamontagne, 372 St. John St.	1	0 12
" 12..	"	29008	Geo. Romeril, 54 St. Patrick St....	1	0 10
" 13..	"	29009	Desiré Charest, 430 St. Joseph St..	1	0 08
" 13..	"	29010	Wilfrid Charest, 160 Savageau St..	1	0 08
" 13..	"	29011	Mason & St. Germain, Saut au Matelot.	1	0 08
" 13..	"	29012	A. B. Dupuis, 190 St. Paul St.....	1	0 10
" 15..	"	29020	Albert Brousseau, 651 St. Valier St.	1	0 12
" 22..	"	29035	J. N. Godin & Co., Three Rivers...	1	0 05
" 27..	"	29033	La Manufacturing Biscuit et Con- fiserie, Scott Junction.		
	<i>District of St. Hyacinthe—J. C. Rouleau, Inspector.</i>				
Aug. 21..	Candy Red Pipes.....	24748	N. Larive, Farnham.....	1	0 14
" 22..	Yellow Lemon Drops	24749	N. Langlin, St. Constant.....	1	0 16
" 22..	Candy Marbles, red striped.....	24750	Demers & McGee, Laprairie.....	1	0 12
" 23..	Lemon Sour Candy.....	24751	J. B. Cote, Valleyfield.....	1	0 16
" 23..	Wintergreen Berries	24752	A. A. Danforth, Valleyfield. . . .	1	0 20
" 23..	Red Sticks.....	24753	W. Brown & Sons, Pt. Fortune....	1	0 10
" 24..	All-day Suckers, orange	24754	J. H. Creswell, Lachute.....	1	0 12
" 24..	Ass. Coloured Easter Eggs	24755	C. Regimbal, Buckingham.....	1	0 30
" 24..	Lemon Sour Candy	24756	J. Lang	1	0 15
" 30..	Strawberry Taffy.....	24757	Du Sault Cie., Joliette	1	0 15
	<i>District of Montreal—J. J. Costigan, Inspector.</i>				
Aug. 22..	Cornation Creams.....	26801	E. P. Charlton & Co., 1471 St. Cathe- rine St.	1	0 20
" 22..	Gum Drops.....	26802	"	1	0 10
" 22..	Coloured Peppermints	26803	A. Panagakos, 1464 St. Catherine St.	1	0 16
" 22..	Candy Fruit	26804	"	1	0 20
" 22..	Winter Green.....	26805	H. Defoy, 1614	1	0 20
" 23..	Caramels.....	26806	G. Gregopakos, 331 Notre Dame W.	1	0 20
" 23..	Winter Green.	26807	"	1	0 24
" 23..	"	26808	Beauvais & Lalonde, 452 St. James St.	1	0 20
" 26..	Lemon Drops.....	26809	Alexandre Doré, St. Anns Bellevue.	1	0 20
Sept. 1..	Raspberry Drops (in stock from January, 1905.)	26810	Z. Trudeau, 3571 Notre Dame St., St. Henri.	1	0 05
	<i>District of Kingston—J. Hogan and A. E. Sanderson, Inspectors.</i>				
Aug. 16..	Highly Coloured Confectionery..	28401	Mrs. Hood, 178 Bank St., Ottawa..	1	0 14
" 16..	"	28403	Geo. Trudel, 181 Rideau St. " ..	1	0 10
" 21..	Candy.....	28501	W. J. Crothers, King St., Kingston.	1	0 50
" 21..	"	28502	W. J. Pritchard, Princess St. " ..	1	0 35
" 21..	"	28503	W. H. Carnosky, Brock St. " ..	1	0 23
" 21..	"	28504	S. C. Hambrook, King St. " ..	1	0 20

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CONFECTIONERY—Continued.

Name and Address of Manufacturer or Furnisher.	RESULTS OF ANALYSIS.							No. of Sample.	Remarks.	
	Colours present in the Sample.									
	Red.	Pink.	Orange.	Yellow.	Green.	Blue.	Violet.			
D. S. Perrins Co., London, Ont.		P		P				None.	29006	Yellow did not dye wool.
"		P		S				"	29007	
Geo. Romeril, 54 St. Patrick St.		S						"	29008	
Wilfrid Charest, 160 Savageau St.		S		S				"	29009	
Vendor		S		S				"	29010	Yellow did not dye wool.
J. Hamilton, Pictou, N.S	P							"	29011	
A. B. Dupuis, 190 St. Paul St.		P		P				"	29012	
Vendor		S						"	29020	
J. N. Godin & Co., Three Rivers.	S	S						"	29035	Yellow did not dye wool.
La Manufacturing Biscuit et Confiserie, Scott Junction, Beauce Co.		P		P				"	29033	
Luttrell & Son, Montreal	P							"	24748	Wool not dyed.
Viau et freres					P			"	24749	
"		S						"	24750	
F. Deguire, Montreal	S							"	24751	
Ganong Bros., St. Stephen, N.B.		S						"	24752	Wool not dyed.
McCormick, London, Ont.			P					None	24753	
The W. Patterson & Son, Ltd., Brantford.				P				"	24754	Does not dye wool.
D. S. Perrin & Co., London, Ont.	S							"	24755	Wool not dyed.
Bunnell Bros., Ottawa				P				"	24756	
Vendors		P						"	24757	
Not known					P			None	26801	Does not dye wool.
"		P						"	26802	
"		P						"	26803	
"			P					"	26804	
"		S						"	26805	
"	S							"	26806	
"	P							"	26807	
L. Martineau & Co., Montreal				P				"	26808	
Lang Manfg. Co				P				"	26809	Does not dye wool.
Viau freres		P						"	26810	
J. S. Stewart, Toronto	S	P		P				None	28401	Does not dye wool.
Vendor		P						"	28403	
W. J. Crothers, Wellington St., Kingston.		S						"	28501	
Robertson Bros., Toronto		P						"	28502	
"		P						"	28503	Does not dye wool.
"		S						"	28504	

INSPECTION OF HIGHLY COLOURED

Date of Collection.	Nature of Sample and Inspector's Report.	No. of Sample.	Name and Address of Vendor.	Cost.	
				Quantity.	Value.
	<i>District of Kingston—Con.</i>			Lbs.	\$ cts.
Aug. 21..	Candy	28505	J. Hiscock, Princess St., Kingston.	1	0 40
" 21..	"	28506	A. J. Rees, Princess St. " ..	1	0 40
" 21..	"	28507	T. Petters " " ..	1	0 20
" 21..	"	28508	J. McLaughlin " " ..	1	0 30
	<i>District of Toronto—A. E. Sanderson, Acting Inspector.</i>				
Aug. 24..	Highly Coloured Confectionery..	28409	C. G. Hamer, 314 Yonge St., Toronto.	1	0 10
" 24..	" " ..	28410	J. E. Hands, 243 King St., Toronto.	1	0 10
" 24..	" " ..	28411	Mr. Thom's, 230 Queen E., " ..	1	0 10
" 25..	" " ..	28422	G. Farwell, 1166, Yonge St., North Toronto.	1	0 10
" 26..	" " ..	28427	G. Gates, Oakville	1	0 14
" 26..	" " ..	28429	Thos. Harker, Oakville	1	0 10
" 28..	" " ..	28435	Joe Rosart, 98 King West, Hamilton.	1	0 10
" 28..	" " ..	28436	B. Edwards, 102 King St., W., Hamilton.	1	0 27
" 28..	" " ..	28443	M. Hall, 70 James St., Hamilton..	1	0 10
" 28..	" " ..	28448	M. J. Smith, Dundas, Ont.....	1	0 10
	<i>District of London—T. Kidd, Inspector.</i>				
Aug. 14..	Highly Coloured Candies.....	22381	Joseph J. Prichards, Harrison.....	1	0 10
" 14..	Golley Mixed Candies.....	22377	C. W. Griffin, Wingham	1	0 10
" 15..	Mixed.....	22382	N. Crawford, Walkerton ...	1	0 16
" 14..	Coloured Candies	22375	Cutch Bros., Seaforth.....	1	0 16
" 15..	Highly Coloured Candies.....	22387	George Days, Owen Sound	1	0 16
" 15..	Coloured Stick Candy	22388	McLaughlin & Son Co., Owen Sound	1	0 20
" 16..	Highly Coloured Candies.....	22390	W. F. Ellis, Meaford.....	1	0 14
" 23..	Coloured Candies	22407	John Charlton, Exeter ..	1	0 25
" 23..	" " ..	22408	" " ..	1	0 16
" 22..	" " ..	22402	J. J. McEwan, Goderich.....	1	0 16
" 23..	Coloured Candy.....	22406	George Scott, Hensol.....	1	0 10
" 22..	Highly Coloured Candies.....	22400	Thos. Beacom, Clinton	1	0 16
	<i>District of Manitoba—W. M. Conklin, Inspector.</i>				
Sept. 13..	Candy ..	25583	Telfer Bros., Winnipeg.....	1	0 14
" 13..	" ..	25584	McNab & Roberts, Winnipeg.....	1	0 16
" 13..	" ..	25585	Kennedy Bros. " ..	1	0 14
" 13..	" ..	25586	Paulin, Chambers & Co. " ..	1	.. ..
" 13..	" ..	25587	The Mooney Biscuit and Candy Co., Winnipeg.	1	0 14
" 13..	" ..	25588	Scott, Bathgate & Co., Winnipeg..	1	0 16
" 13..	" ..	25589	William Paterson & Son Co., Winnipeg.	1

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CONFECTIONERY—Continued.

Name and Address of Manufacturer or Furnisher.	RESULTS OF ANALYSIS.							Mineral Impurity.	No. of Sample.	Remarks.
	Colours present in the Sample.									
	Red.	Pink.	Orange.	Yellow.	Green.	Blue.	Violet.			
Robertson Bros., Toronto.....		P			P			None.	28505	
Stewart, Toronto.....		S	S					"	28506	
Robertson "								"	28507	
A. J. Curry, London, Ont		S					S	"	28508	
Robertson & Watson, Toronto..		S	P		P			None	28409	
Vendor.....		P						"	28410	
Robertson Bros., Toronto. . . .	P	S		P				"	28411	
" "		P		P				"	28422	
Westlick, Woodstock.....		S						"	28427	
Hamilton Confectionery Co.....	P			P				"	28429	
Land, Hamilton		S						"	28435	
Vendor.....		S		S			S	"	28436	Violet does not dye wool.
Not known		P		P				Faint- est traces arsenic	28443	
Patterson, Brantford..		S	S					None	28448	
Perrin & Co., London, Ont. ...	P	S		P				None	22381	
Macormac Mfg. Co., London, Ont.		P	P					"	22377	
P. H. Doerr & Co., Berlin.....	P	P						"	22382	
Bean & Westlake, Woodstock ..		P					P	"	22375	
Lang Confect'y Co., Montreal ..		S						"	22387	
Vendor.....		S						"	22388	
D. S. Perrin, London ...		P		P			P	"	22390	
Canada Biscuit Co., Toronto....		P		P			P	"	22407	
C. H. Doerr & Co., Berlin, Ont.	P			P	P			"	22408	
Macormick Mfg. Co., London ..		P	P	P				"	22402	
Mooney Bicket Candy Co., Stratford, Ont.	S	P						"	22406	
D. S. Perrin, London, Ont		P		P				"	22400	
Robertson Bros., Toronto.....		P		P			P	None.	25583	
Clarke, Nicholls & Coombes, London, Eng.	P							"	25584	
Vendor.....		P			P			"	25585	
"		S		S				"	25586	Yellow did not dye wool.
"		P		P				"	25587	Yellow dyed pink.
Robertson Bros., Toronto.....		S						"	25588	
Wm. Paterson & Son Co., Brant- ford.	S	S		S			S	"	25589	Yellow did not dye.

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INSPECTION OF HIGHLY COLOURED

Date of Collection.	Name of Sample and Inspector's Report.	No. of Sample.	Name and Address of Vendor.	Cost.	
				Quantity.	Value.
1905.	<i>District of Manitoba—Con.</i>			Lbs.	\$ cts.
Aug. 13..	Candy..	25590	A. Pratt Winnipeg..	1	0 16
" 13..	"	25591	Dingles & Stewart " ..	1	.....
" 14..	"	25592	W. J. Boyd " ..	1	.....
	<i>District of British Columbia—E. B. Parkinson, Inspector.</i>				
Aug. 15..	Confectionery.	26983	Geo. Wagg, Vancouver.....	1	0 14
" 15..	"	26985	S. Harens "	1	0 26
" 16..	"	26991	F. Carns, Victoria.....	1	0 26
" 17..	"	28009	Sinclair's Grocery, New Westminster	1	0 16
" 17..	"	28010	N. J. Larsen "	1	0 16
" 15..	"	26977	The Hudson Bay Co., Vancouver..	1	0 16
" 15..	"	26978	H. E. Almond (The Spa).....	1	0 30
" 15..	"	26979	F. Gardner, Vancouver	1	0 26
" 16..	"	26995	J. Peters, Victoria.....	1	0 26
" 16..	"	26998	H. A. Lilley "	1	0 26

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CONFECTIONERY.—*Concluded.*

Name and Address of Manufacturer or Furnisher.	RESULTS OF ANALYSIS.							No. of Sample.	Remarks.
	Colours present in the Sample.								
	Red.	Pink.	Orange.	Yellow.	Green.	Blue	Violet.		
The Lang Mfg. Co., Montreal...	.....	P	.....	P	...	.....	.....	None.	25590
McCormick Mfg. Co., London, Ont.	S	S	.	S	.....	.....	S	"	25591
Vendor .....	.....	P	.....	S	.....	.....	.....	"	25592
									Yellow did no dye wool.
Pither & Leiser, Victoria.....	P	P	.....	.....	.....	.....	.....	None.	26983
Ramsay Bros., Vancouver.....	.....	P	.....	.....	.....	.....	.....	"	26985
Popham Bros., Victoria.....	.....	.....	.....	.....	P	.....	.....	"	26991
Not known.....	P	P	.....	P	.....	.....	.....	"	28009
Ramsay Bros., Vancouver...	P	P	.....	P	.....	.....	.....	"	28010
Robertson Bros., Toronto ...	P	P	.....	P	.....	.....	.....	"	26977
Ramsay Bros., Vancouver.....	.....	P	.....	.....	.....	.....	.....	"	26978
Vendor	P	.....	.....	.....	.....	.....	.....	"	26979
Not known.....	S	P	.....	S	.....	.....	.....	"	26995
Vendor	P	.....	.....	.....	.....	.....	.....	"	26998

APPENDIX H.**BULLETIN No. 113.—PATENT MEDICINES AND HEADACHE POWDERS.**

OTTAWA, ONT., January 9, 1906.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to submit herewith a report addressed to me by Mr. A. McGill concerning certain samples of patent medicines and headache powders which were collected in accordance with your request. In addition to what Mr. McGill has said regarding these, I beg to offer the following remarks for your consideration :—

Peruna.—From the small percentage of total solids contained in this article, less than is found in ordinary rye or Scotch whiskey, it does not appear to belong to the class of patent medicines. The quantity of alcohol found in it (40 per cent proof spirit) is considerably higher than the strongest port wine and about two-thirds that of the ordinary grades of whiskey. It becomes a question as to whether it can be legally sold by druggists without a liquor license.

In the New Hampshire Sanitary Bulletin of the present month, it is stated that an order has been issued by the Commissioner of Internal Revenue, Treasury Department of the United States, requiring dealers in certain patent medicines to pay a revenue tax as liquor dealers. The following medicines are referred to in this ruling :—

Atwood's La Grippe Specific.
Cuban Gingeric.
De Witt's Stomach Bitters.
Dr. Bouvier's Buchu Gin.
Dr. Fowler's Meat and Malt.
Duffy's Malt Whisky.
Gilbert's Rejuvenating Iron and Herb Juice.
Hostetter's Stomach Bitters.
Kudros
Peruna.
Rockandy Cough Cure.

These preparations contain so small an amount, if any, of effective drugs or medicines, and so large an amount of alcohol, as to make their use as intoxicants not uncommon.

Ozone.—Since this article contains a substance whose properties are the opposite of those indicated by the name, its sale would appear to be illegal under section 2 of the Adulteration Act, according to which a drug shall be deemed to be adulterated 'if its strength quality or purity falls below or differs from the professed standard under which it is sold or offered for sale.'

Extract of Sarsaparilla.—The foregoing quotation from the Adulteration Act seems also to apply to some of the samples sold under this name.

Headache Powders.—Although these cannot very well be classed as patent medicines, they are no doubt proprietary. It does not appear possible to prove adulteration in connection with any of them, but they seem to deserve the attention of the different Provincial Boards of Health. The course prescribed by section 34 of the Pharmacy Act of Ontario, as to the inspection and analysis of patent or proprietary medicines, would seem to be well fitted for application to some of these headache powders.

I have the honour to be, sir,
Your obedient servant,

THOMAS MACFARLANE,
Chief Analyst.

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OTTAWA, December 18, 1905.

THOS. MACFARLANE, Esq., F.R.S.C., &c.,
Chief Analyst.

SIR,—I beg to hand you a report, dealing with the analyses of thirty samples of headache powders and similar preparations, and fifteen samples of patent medicines. These last were collected with a view to their examination for alcohol ; but in addition to this determination, I have given the contents of iodide of potassium found in six (6) of them, and that of sulphurous acid, which is the most characteristic substance in so-called 'Ozone' (No. 26689) and 'Liquozone,' (No. 24897).

The quantity of iodide present in every case, much less than the minimum pharmacopoeial dose (5 to 10 grains).

With regard to the headache powders, I may say that quantitative estimation of the active drug (acetanilide-antifebrin or phenacetin) has, in every case, been attempted. Owing to the presence of interfering substances of very indefinite nature, such as ginger, liquorice, &c., these estimations are less exact than could be wished, but they have demonstrated that acetanilide is present to the extent of about three grains in most of the powders containing it, while the amount of phenacetin present in the two (2) preparations containing it does not exceed five grains.

Of the three drugs which are recognized as having specific effect in relieving headache, and which have lately come into popular use for this purpose, acetanilide is not only prescribed in smallest doses by the British Pharmacopœia, but is much the lowest priced drug. The respective doses prescribed by the B.P., are as follows :

	Grains.
Acetanilide.....	1 to 3
Phenacetin	5 to 10
Phenazone ...	5 to 20

The prices at which these drugs are quoted by the vendors named, are as follows :

	Harrington Bros., 1905, per lb.	Evans & Sons, 1903.
Acetanilide	1 shilling,	\$0 50
Phenacetin	3s. 3d.	2 00
Phenozone	10s. 8d.	4 50

If there be any different degrees of toxicity in the use of these drugs, it remains for the medical fraternity to pass a verdict upon the matter. I may say, however, that the habitual use of any substance so potent in its physiological effects as acetanilide must be attended with danger to the person who uses it. It will be noted that in most cases the depressant effect upon the heart is sought to be counteracted by the addition of caffeine, bi-carbonate of soda or other drug of like character.

A large share of the work here recorded has been done by Mr. Lemoine.

I have the honor to be, sir,
Your obedient servant,

A. MCGILL.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.
1905.				\$ cts.		
June 27	Peruna.....	26682	John T. Lyons, 6 Bleury St., Montreal	2 10 3 bottles	Peruna Medicine Co., Columbus, Ohio.	Lyman's Sons Co.
" 27	Ayer's Sarsaparilla	26683	" " "	2 25 3 bottles	D. J. C. Ayer & Co., Lowell, Mass.	
" 28	Bristol's Sarsaparilla.	26688	Dr. J. Leduc & Co., 2453 St. Catherine St., Montreal.	1 30 2 bottles	Lanman & Kemp, New York.	
" 28	Ozone.....	26689	" " "	2 25 3 bottles	The Public Drug Co., Bridgeburg, Canada.	
" 28	Dr. Madison's Peruvian Tonic.	26693	Dr. J. G. Laviolette, 1605 Notre Dame St., Montreal.	2 25 3 bottles	The Madison Pharmaceutical Co., New York City, U.S.A.	
" 22	Extract of Sarsaparilla.	24895	J. D. Tully, 401 George St., Peterborough.	2 25 3 bottles	J. D. Tully, Peterborough, Ont.	
" 22	Standard Sarsaparilla.	24896	John Nugent, 389 George St., Peterborough.	2 40 3 bottles	The Canadian Pharmaceutical Association, Toronto.	
" 22	Liquozone..	24897	H. H. Edmison, George St., Peterborough.	2 50 3 bottles	The Liquozone Co., Toronto, Can.	
" 22	Nyal's Celery Nervine.	24898	" " "	2 25 3 bottles	New York and London Drug Co., New York, U.S.A.	
" 22	Paine's Celery Compound.	24899	" " "	2 40 3 bottles	Wells, Richardson & Co., Burlington, Vermont.	
July 17	Massey's Sarsaparilla.	24890	G. D. Reid, 684 Queen St. West, Toronto.	2 10 3 bottles	D. Massey Laboratory Co., London, Eng., and Toronto, Can.	
" 17	Burdock Blood Bitters.	24891	J. R. Bond, 453 Yonge St., Toronto.	1 40 2 bottles	The T. Milburn Co., Toronto.	
" 17	Stringer's Nervine.	24892	" " "	3 00 3 bottles	Stringer Medical Co., 77 Victoria St., Toronto.	
" 17	Dr. Hodder's Burdock and Sarsaparilla Compound.	24893	" " "	1 50 3 bottles	Union Medicine Co., Toronto.	
" 17	Dr. Pierce's Favourite Prescription.	24894	D. L. Thompson, 394 Yonge St., Toronto.	3 00 3 bottles	World's Dispensary Medical Association, Proprs., Buffalo, N.Y	
	Peruna.....	Spec'l				

SESSIONAL PAPER No. 14

DRUG SAMPLES.

RESULTS OF ANALYSIS.						Remarks.
Specific Gravity of Sample.	Specific Gravity of Distillate to equal Vol.	Alcohol Content.				
		Weight.	Volume.	Proof Spirit.	Solids.	
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
0.9752	.9740	18.08	22.18	38.87	0.44	Contains no iodide of potassium.
1.0789	.9741	18.00	22.09	38.71	23.53	Contains 0.415 grms. potassium iodide per 100 cc. (=1.81 grains per ounce).
1.0537	.9903	5.69	7.09	12.43	14.49	Contains 0.282 grms. potassium iodide per 100 cc. (=1.23 grains per ounce).
1.0096	1.0000	None.	None.	None.	1.60	Contains no iodides ; contains 0.1568 grms. sulphurous acid per 100 cc.
0.9980	.9820	11.62	14.37	25.18	3.67	Contains 0.066 grms. potassium iodide per 100 cc. (=0.288 grains per ounce).
1.1889	.9969	1.75	2.20	3.85	41.53	Contains no iodides although these are claimed to be present.
1.0688	.9785	14.36	17.70	31.03	38.33	Contains 0.349 grms. iodide of potassium per 100 cc. (=1.525 grains per ounce).
1.0091	1.000	None.	None.	None.	1.51	Contains no iodides ; contains 0.1728 grms. sulphurous acid per 100 cc.
1.0455	.9821	11.54	14.27	25.01	15.57	Contains no iodides.
1.0162	.9779	14.91	18.36	32.19	10.65	" "
1.1775	.9960	2.28	2.86	5.01	39.18	Contains 0.398 grms. potassium iodide per 100 cc. (=1.739 grains per ounce).
1.0298	.9799	13.23	16.33	28.62	15.66	Contains no iodides.
1.1309	.9987	0.68	0.86	1.51	25.08	" "
1.0429	.9767	15.92	19.59	34.32	15.81	Contains 0.083 grms. potassium iodide per 100 cc. (=0.363 grains per ounce).
1.1041	1.0000	None.	None.	None.	40.83	Contains no iodides.
0.9739	.9722	19.50	23.88	41.85	0.37	

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EXAMINATION OF HEADACHE POWDERS

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Description as found on the Label.
1905.	District of Montreal—J. J. Costigan, Inspector.			\$ cts.		
June 27	Mathieu's Nervine Powders.	26680	John T. Lyons, 6 Bleury St., Montreal.	0 75 (3 pkgs.)	.....	Mathieu's Nervine Powders for headache and neuralgia; contains no opium, morphine or chloral. One powder will relieve and a few powders will cure you. If you have a bad headache; if you are feverish; if you do not sleep well; if you are nervous; if you have la grippe; if you suffer from neuralgia. These powders are very good for children cutting their teeth.
" 27	Cachets du Dr. F. J. Demers.	26681	Dr. E. J. Demers, Montreal.	0 54 (3 boxes)	Depot: 1157 Rue St. Laurent, Montreal.	Cachets du Dr. F. J. Demers, contre le mal de tête—a sure cure for headache. Guérison prompte et certaine des névralgies et de tous maux de tête nerveux ou bilieux; ce cachet est inoffensif et supérieur à tous les autres. Dépôt, 1157 rue St. Laurent, Montréal.
" 28	Orangeine	26684	J. E. Tremble, 2480 St. Catherine St., Montreal.	0 75 (3 boxes)	Orangeine Chemical Co., 15 Michigan Av., Chicago	Orangeine cures congestive headache, nervous headache, neuralgia, sciatica, sick headache, hemicrania, painful menstruation, la grippe, rheumatism, etc.
" 28	Lyman's Headache Wafers.	26685	" "	0 75 (3 boxes)	Lyman, Sons & Co., Montreal.	Lyman's Headache Wafers, a positive cure for sick and bilious headache and neuralgia: price 25c. a box; manufactured by Lyman, Sons & Co., Montreal, established 1800.

SESSIONAL PAPER No. 14
AND SIMILAR PREPARATIONS.

Directions for use, as found on the Label.	RESULTS OF ANALYSIS.						Remarks.	
	Weight of Contents of one Powder.		Acetani- lide= anti- febrin.	Phen- acetin.	Phena- zone= anti- pyrine.	Caffeine		Carbon- ate of Soda.
	Grns.	Grms.						
Directions—One powder every 3 hours; however, the dose can be repeated after one hour if not relieved; for children, 1 to 2 years old, divide 1 powder in 12; 3 to 4 years, divide 1 powder in 8; 5 to 10 years, divide 1 powder in 4, 10 to 15 years, divide one powder in 2. How to take them: place a powder on the tongue and drink a little water after. 25c. per box.	8.5	0.55	Present.	None...	None...	Doubtful	Present.	
Directions—S o f t e n the wafer by placing it for a moment in a little water, then swallow with a drink of water; if relief is not obtained, a second wafer may be taken half an hour or an hour later, but more than two wafers should not be taken in succession; the wafers should be taken as early in the attack as possible.	10.0	0.65	"	" ...	" ...	Present.	"	
A grand rule of health; take an orangeine powder whenever chilled, exposed, overwrought, nervous or upset; all good prescriptions should be taken only according to carefully prepared directions, and to secure best results, you should never take more than six 'Orangeine' powders at regular intervals during the 24 hours.	5.0	0.32	"	" ...	" ...	"	"	An enclosure contains the following statements:-- Composition --"Orangeine" contains in a harmless five-grain powder the following well-known remedies: podophyllin, versicolor iris, soda-bicarb, acetanilid, nux vomica and caffeine, so carefully balanced by years of human test as to leave no trace of drug effect from continued use. 'Maximum effect--minimum dose.'
Directions—S o f t e n the wafer by placng it for a moment in a little water, then swallow with a drink of water; if relief be not obtained, a second wafer may be taken half an hour or an hour later.	8.0	0.52	"	" ...	" ...	"	"	An enclosure contains the following: Contain neither morphine, antipyrine, bromide nor any other article which could injure the most delicate, they are therefore the best and safest remedy in all

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EXAMINATION OF HEADACHE POWDERS

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Description as found on the Label.
1905.	<i>Dist. of Montreal—J. J. Costigan, Insp.—Con</i>			\$ cts.		
June 28	Alpha Wafers.	26686	J. H. Harte, 2450 St. Catherine St., Montreal.	0 60 (3 boxes)	W. J. Brown, Detroit, Mich.	W. J. Brown's Alpha Wafers, a guaranteed cure for headache & neuralgia, never fail if taken as directed. W. J. Brown, Detroit, Mich., and Windsor, Ont., for sale at all drug stores. Price 25 cents.
" 28	Raphael's Headache Wafers.	26687	Dr. J. Leduc & Co., 2453, St. Catherine St., Montreal.	0 50 (3 boxes)	Raphael Chemical Co., London, Paris and New York.	Raphael's Headache Wafers, Raphael Chemical Co., London, Paris and New York.
" 28	Lambly's Headache Cure.	26690	R. H. Bryson, 2391 St. Catherine St., Montreal	0 75 (3 boxes)	J. W. Lambly, Montreal,	Lambly's Headache Cure, warranted to cure headache, toothache, neuralgia, earache, pain in the back, bowels or stomach.
" 28	Campbell's Headache Wafers.	26691	Kenneth Campbell Co., St. Catherine St., Montreal.	0 75 (3 boxes)	Kenneth Campbell & Co., Montreal.	Campbell's Headache Wafers for the immediate relief of nervous, bilious or neuralgic headaches. Kenneth Campbell & Co., Montreal.
July 10	Nelson's Headache Cachets.	26692	Dr. J. G. Laviolette, 1605 Notre Dame St., Montreal.	0 75 (3 boxes)	Put up for vendor by the Toronto Pharmacal Co. (Vendor's statement).	Dr. Nelson's Headache Cachets Cure. Quick relief, Nelson Medical Co., New York and Montreal.
" 10	Albert's Headache Wafers.	26694	M. Albert, 169 St. Lawrence Street, Montreal.	0 75 (3 boxes)	Vendor.. ..	Albert's Headache Wafers, immediate cure for headache and neuralgia, M. Albert, druggist, 169 St. Lawrence St., cor. Dorchester, Montreal.

SESSIONAL PAPER No. 14
AND SIMILAR PREPARATIONS—Continued.

Directions for use, as found on the Label.	RESULTS OF ANALYSIS.						Remarks.	
	Weight of Contents of one Powder.		Acetani- lide= ante- febrin.	Phen- acetin.	Phena- zone= anti- pyrine.	Caffeine		Carbon- ate of Soda.
	Grms.	Grms.						
Directions—To prepare the wafer, put it into a glass of water, leave there until it is perfectly soft, about 1 minute, place it in the mouth when soft, and swallow with a drink of water; see full directions inside.	6·5	0·42	Present.	None.	None.	Do'btful	Present.	cases of neuralgia and headache, whether arising from indigestion, biliousness or nervous troubles.
Directions—Place the wafer in a glass of water till thoroughly softened and place in the mouth while soft,swallow with a little water; the wafer should be taken as early in the attack as possible. If relief is not obtained, repeat in an hour, then not for four hours.	9·5	0·62	"	" ...	" ...	Present.	"	Directions—Allow the cachet to remain in a teaspoonful of water till softened, which will require about ½ to 1 minute, then place it in the mouth and swallow with a little water. If relief be not obtained, another wafer should be taken in about one hour; if any depression be felt,take a small glass of wine or whiskey.
Dose—One powder every 2 to 8 hours; children one quarter to one-half of above quantity; to be taken in a little water, broth, etc. Prepared by J.W. Lambly, Montreal.	10·0	0·65	"	" ...	" ...	"	None...	The following note is printed on the box :— These powders contain no antipyrine, morphine, or any other injurious substance. Instead of acting as a depressant, they stimulate and strengthen the heart. They can be taken at any time with perfect safety, but act better when taken on an empty stomach.
Directions—After moistening it thoroughly, swallow a wafer with a wineglass full of water; it may be repeated in half an hour or an hour.	11·0	0·72	None...	Present.	" ...	"	Present.	
Directions—Place the cachet for a few moments in a glass of water until thoroughly softened, then swallow; another may be taken in an hour if the first has not given sufficient relief; a seidlitz powder frequently gives valuable assistance.	13·0	0·84	" ...	"	" ...	Do'btful	"	
Directions.—Soften the wafer by placing it for a moment in a little water, then swallow with a drink of water. If relief be not obtained, a second wafer may be taken half an hour or an hour later.	9·0	0·58	"	" ...	" ...	Present.	"	These wafers contain no injurious ingredients, and are warranted free from antipyrine, morphine, chloral or opium.

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EXAMINATION OF HEADACHE POWDERS

Date of Collection.	Nature of Sample	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Description as found on the Label.
1905. District of Kingston—J. J. Costigan, Acting Inspector.				\$ cts.		
June 22	Stearn's Headache Cure.	26582	W. W. Gibson, King St., Kingston.	0 60 (3 boxes)	Not known to vendor.	Stearn's Headache Cure.
" 22	Perfect Headache Powders.	26583	" "	0 30 (3 boxes)	Toronto Pharmaceutical Co., Ltd., Toronto, Montreal, Winnipeg.	Perfect Headache Powders.
" 22	Hedrite	26584	L.T. Best, Princess St., Kingston.	0 50 (2 boxes)	The Herald Remedy Co., Chicago, Montreal, Canada.	Cures headache; pleasant, harmless, speedy relief.
" 22	Bromo-Seltzer ...	26585	" "	0 30 (3 bot's.)		
" 22	Phenyo-Caffein ...	26586	" "	0 75 (3 boxes)	Phenyo-Caffein Co. Worcester, Mass., U.S.A.	Phenyo-Caffein, 25c. size. These anodine and nerve pills contain no opium, and are the most efficient remedy for sick and nervous headache and neuralgia, giving almost immediate relief. Inestimable in relieving rheumatism, lumbago, nervousness, sleeplessness, feverishness and colds.
" 22	Hoffman's Harmless Headache Powders.	26587	" "	0 75 (3 boxes)	Hoffman Drug Co., Bridgeburg, Ont. Can., New Rochelle, N.Y.	Hoffman's Harmless Headache Powders, a simple and effective cure for all headaches. We guaran

SESSIONAL PAPER No. 14

AND SIMILAR PREPARATIONS—Continued.

Directions for use, as found on the Label.	RESULTS OF ANALYSIS.						Remarks.	
	Weight of Contents of one Powder.		Acetani- line= anti- febrin.	Phen- acetin.	Phena- zone= anti- pyrine.	Caffeine		Carbon- ate of Soda.
	Grms.	Grms.						
Place the wafer in a glass of water until thoroughly softened (about one-half to one minute) and place it in the mouth while still soft; swallow with a drink of water. If relief is not obtained, repeat it in an hour, but it is not advisable to take more than two wafers in succession. The wafers should be taken as early in the attack as possible.	8·0	0·52	Present.	None.	None.	Do'btful	None.	These wafers contain no injurious narcotics and are warranted free from antipyrine, morphine, chloral or opium.
Take one powder dry on the tongue, or in a little water, and repeat in half an hour if not relieved. Take as early in the attack as possible. Do not repeat needlessly.	11·5	0·75	"	"	"	"	"	Are an instantaneous cure for sick or nervous headache and neuralgia. They promptly relieve sick stomach, exhausted nerves, mental strain, sleeplessness, worry and anxiety, and all forms of depression of spirits.
Place the lozenge on the tongue and swallow with a drink of water. The imprint in the middle of the lozenge makes it easy to break in two pieces, and is convenient for people who are troubled with enlarged tonsils. Take early in the attack.	10·5	0·68	"	"	"	"	"	Directions.—Take one powder in a little water, and repeat in half an hour if not relieved. Take as early in the attack as possible.
Dose.—Two or three pills; if these do not afford entire relief at end of one hour, take two more. Repeat above every 6 or 8 hours if necessary. Between ages of 5 and 10, half the above. These pills may be pulverized and taken in water, spirits or jelly.	4·0	0·26	"	"	"	Present.	"	They are much preferable to any opiate, as they are efficient and curative, without any unpleasant action on the stomach or nervous system. Continued use does not require an increase of the dose, nor does the system become habituated to them. We have never known of but one case in which more than eight of these pills were required during 24 hours, and that was an unusually severe case of dysmenorrhœa, when fifteen were taken, causing "com-
Directions.—Place a powder on the tongue and swallow with a draught of water, if not relieved in half an hour take	9·0	0·58	"	"	"	Do'btful	"	

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EXAMINATION OF HEADACHE POWDERS

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Description as found on the Label.
1905.	<i>District of Kingston—J. J. Costigan, Acting Inspector—Continued.</i>			\$ cts.		tee these powders to contain no opium, quinine, bromides or narcotics, price 25c. For sale by all druggists or sent by mail on receipt of price. The Hoffman Drug Co., Bridgeburg, Ont., Can., New Rochelle, N.Y.
June 23	Standard Headache Powders.	26588	R. Templeton & Co., Belleville.	0 75 (3 boxes)	Canadian Pharmaceutical Association, Toronto.	Standard headache powders. A simple, harmless and almost instantaneous relief for headache from any cause; prepared by the Canadian Pharmacal Association, Toronto.
" 23	Miller's Headache and Grip Powders	26589	"	0 75 (3 boxes)	C. H. Gunn & Co., Chatham, Ont.	Miller's headache and grip powders; a quick cure for nervous headache, sick headache, neuralgic pains or pains from any cause; put up by C. H. Gunn & Co., Chatham, Ontario; Successors to E. Miller & Co., Dresden, Ont. Price 25 cents.
" 23	Templeton's Headache Wafers.	26590	"	0 75 (3 boxes)	R. Templeton & Co., Belleville, Ont.	Templeton's headache wafers; a safe and positive relief for all forms of nervous headache or neural-

SESSIONAL PAPER No. 14
AND SIMILAR PREPARATIONS—Continued.

Directions for use, as found on the Label.	RESULTS OF ANALYSIS.						Remarks.	
	Weight of Contents of one Powder.		Acetani- lide= ante- febrin.	Phen- acetin.	Phena- zone= anti- pyrine.	Caffeine		Carbon- ate of Soda.
	Grms.	Grms.						
another powder. Is not a cathartic.								plete relief." These pills contain no opium nor morphine. Usual- ly a dose of three, or not less than two, pills is to be taken, as the beneficial effect is more certain than from repeated smaller doses. A possible ex- ception to this rule is a case of very advanc- ed age or of great de- bility, when one pill repeated every half hour till three are taken, sometimes an- swers best. Children can take proportion- ately larger doses than adults. One-fourth of a pill for a child one year old nearly always has a happy effect in allaying fever and pro- ducing sleep. If a second dose is requir- ed, it could be given at the expiration of one hour. These pills contain no cathartic medicines.
Directions—Place a pow- der on the tongue and swallow with a draught of water; if not re- lieved in half an hour, take another powder; do not repeat again for four hours.	7·0	0·45	Present.	None ..	None...	Doubt- ful.	None...	
Dose—Adults, 1 powder; 5 years, $\frac{1}{3}$ of a powder; 8 years, $\frac{1}{2}$ of a powder; 12 years, $\frac{3}{4}$ of a powder; repeated in one hour if necessary, and if after four hours all pain is not gone, repeat; one or two doses will arrest the worst case of sick headache, and will cure the most distressing attack of nervous head- ache.	6 0	0·39	"	" ...	" ...	"	" ...	
Directions regarding use— For ordinary headache arising from a disor- dered condition of the stomach, or from	16·0	1·04	"	" ...	" ...	Present.	" ...	

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EXAMINATION OF HEADACHE POWDERS

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Description as found on the Label.
1905.	<i>District of Kingston--J. J. Costigan, Acting Inspector--Concluded.</i>			\$ cts.		
June 23	Zutoo Tablets	26591	F. C. Clark, Belleville.	0 75 (3 boxes)	B. N. Robinson & Co., Coaticook, Que.	gia; they are guaranteed to be absolutely free from morphine, opium, cocaine or drugs in the least way harmful; for additional description as well as directions regarding use, see circular accompanying each package; R. Templeton & Co., wholesale druggists, Belleville, Ont.: In the treatment of sick or nervous headache, neuralgia, rheumatism or menstrual pains, these wafers will be found a most appropriate specific; for the relief of sleeplessness they are especially valuable.
	<i>District of Toronto--J. J. Costigan, Acting Inspector.</i>					Zutoo tablets, Japanese headache cure. B.N. Robinson Co., Coaticook, Que., sole owners for Canada and United States. Price 25c. Zutoo tablets cure sick headache, bilious headache, nervous headache, neuralgia and car sickness; they break up a cold and give prompt relief to rheumatic pains; guaranteed not to affect the heart.
July 17	Standard Headache Powders.	24880	R. O. Snider, 133 Yonge St., Toronto.	0 75 (3 boxes)	Canadian Pharmaceutical Association, Toronto.	This sample is identical with No. 26588.
" 17	Headache Powders.	24881	" "	0 75 (3 boxes)	Put up specially for vendors by H.K. Wampole Co. (This statement made by vendor.)	Headache powders; prepared by Medical Hall (R. O. Snider, prop.) 133 Yonge St., Toronto, Ont.

SESSIONAL PAPER No. 14
AND SIMILAR PREPARATIONS—Continued.

Directions for use, as found on the Label.	RESULTS OF ANALYSIS.						Remarks.	
	Weight of Contents of one Powder.		Acetani- lide= anti- febrin.	Phen- acetin.	Phena- zone= anti- pyrine.	Caffeine		Car- bonate of Soda.
	Grms.	Grms.						
biliousness, constipation, &c., one (1) wafer should be taken and repeated every three (3) hours if necessary; for neuralgia, rheumatic or menstrual pains, one (1) every two (2) or three (3) hours as required; for sleeplessness or nervousness, one (1) on retiring to be repeated in one (1) hour if sleep is not produced.								
Dose—Take two tablets and repeat in half an hour if not relieved by first dose; females and delicate persons will require only one tablet repeated as second dose (see special directions on inside circular).	4·0	0·26	Present.	None...	Doubtful.	Present.	Present.	
.....								
Directions—For headache, one powder repeated in twenty or thirty minutes if necessary; for neuralgia, rheumatic pains, &c., one powder every two or three hours, as required; for sleeplessness and nervousness, one powder on retiring, to be repeated in one hour if sleep is not produced; taken in a little water they will lower the temperature and induce sleep; for sick	8·0	0·52	Present.	None...	Doubtful.	Present.	Present.	These powders have met with wonderful success and are certainly deserving of all praise. They are guaranteed absolutely free from opium, morphine, codeine, cocaine and other similar narcotics and have proved their efficiency where such drugs as phenacetine and antipyrine have failed. For sick or nervous headache, neuralgia, rheumatic and menstrual pains these

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EXAMINATION OF HEADACHE POWDERS

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Description as found on the Label.
1905.	District of Toronto—J. J. Costigan, Acting Inspector—Continued.			\$ cts.		
July 17	The Chemists' Headache Powders.	24882	R. O. Snider, 133 Yonge St., Toronto.	0 75 (3 boxes)	The Chemists' Co. of Canada, Ltd., Hamilton, Toronto and Winnipeg.	The Chemists' headache powders; harmless, pleasant to the taste, easily taken; these powders are an effective cure for headache and neuralgia. They are efficient and prompt in their action, without disturbing the stomach or nervous system.
" 17	Da Costa's Headache Wafers.	24883	" ..	0 75 (3 boxes)	Vendor	DaCosta's headache wafers; a safe and positive relief for all forms of nervous headache or neuralgia; they are guaranteed to be absolutely free from morphia, opium, cocaine or drugs in the least way harmful; prepared by Medical Hall (R. O. Snider, prop.) 133 Yonge St., Toronto, Ont.
" 17	The Chemists' Headache Powders.	24884	G. D. Reid, 684 Queen St. West, Toronto.	0 75 (3 boxes)	The Chemists' Co. of Canada, Ltd., Hamilton, Toronto and Winnipeg.	This sample is identical with No. 24882.
" 17	Bond's Headache Powders.	24885	J. R. Bond, 453 Yonge St., Toronto.	0 75 (3 boxes)	J. R. Bond, 453 Yonge St., Toronto.	Bond's headache powders. A positive cure for headache, neuralgia, etc.
" 17	Hoffman's Harmless Headache Powders.	24886	D. L. Thompson, 394 Yonge St., Toronto.	0 75 (3 boxes)	Hoffman Drug Co., Bridgeburg, Ont., & New Rochelle, N. Y.	This sample is identical with No. 26587.

SESSIONAL PAPER No. 14

AND] SIMILAR PREPARATIONS—Continued.

Directions for use, as found on the Label.	RESULTS OF ANALYSIS.						Remarks.	
	Weight of Contents of one Powder.		Acetani- lide= anti- febrin.	Phen- acetin.	Phena- zone= anti- pyrine.	Caffeine		Car- bonate of Soda.
	Grms.	Grms.						
and nervous headache and neuralgia, also a cure in cases of sudden cold with fever; direc- tions inside.								powdersareunsurpass- ed and their soothing qualities are also espe- cially indicated in cases of sleeplessness, nervousness, &c.
Directions—For adults, place the powder on the tongue and swallow with a draught of water; if not relieved in half an hour, take another powder; do not repeat again for four hours.	16·0	1·04	Present.	Present.	None...	Doubt- ful.	None...	These powders do not contain any opium, morphia, quinine, bro- mide or any narcotic.
Directions regarding use— For ordinary headache, arising from a disorder- ed condition of the stomach or from bilous- ness, constipation, &c., one (1) wafer should be taken, and repeated in from twenty (20) to thirty (30) minutes if necessary; for neural- gia, rheumatic or men- strual pains, one (1) every two (2) or three (3) hours as required; for sleeplessness or ner- vousness, one (1) on re- tiring, to be repeated in one (1) hour if sleep is not produced.	20·0	1·30	"	" ...	" ...	Present.	"	
Directions—Place a pow- der on the tongue and swallow with a draught of water. If not re- lieved in half an hour take another. Price 25c. J. R. Bond, chemist and draggist, 453 Yonge St., opp. Bank of Com- merce, Telephone North 350, Toronto.	9·5	0·62	None ..	Present.	None ..	Present.	None ..	

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EXAMINATION OF HEADACHE POWDERS

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Description as found on the Label.
1905.	District of Toronto—J. J. Costigan, Acting Inspector—Concluded.			\$ cts.		
July 17	Goodman's Head-ache Powders.	24887	E. A. Goodman, 380 Yonge St., Toronto.	0 75 (3 boxes)	Vendor	Goodman's headache powders, safe, pleasant and effectual, giving almost instant relief; contains no dangerous drugs.
" 17	Dr. Weston's Headache Tablets.	24888	W. R. Hoar, 356 Yonge St., Toronto.	0 40 (3 boxes)	Dr. Weston Pill Co., 356 Yonge St., Toronto.	Dr. Weston's headache tablets.
" 17	Carter's Pleasant Headache Powders.	24889	H. W. Burgess, 278 Yonge St., Toronto.	0 50 (2½ bxs.)	Carter Drug Co., Toronto.	Carter's pleasant headache powders cure nervous or sick headache, headache arising from neuralgia, fatigue of body or mind, over-eating, alcohol or tobacco habit, etc. These powders are guaranteed to contain no opium, quinine, bromides or narcotics. Manufactured only by the Carter Drug Co., Toronto.

SESSIONAL PAPER No. 14
AND SIMILAR PREPARATIONS—*Concluded.*

Directions for use, as found on the Label.	RESULTS OF ANALYSIS.						Remarks.	
	Weight of Contents of one Powder.		Acetani- lide= anti- febrin.	Phen- acetin.	Phena- zone= anti- pyrine.	Caffeine		Car- bonate of Soda.
	Grms.	Grms.						
Directions—Place a powder on the tongue, swallow with a draught of water, if not relieved in half an hour take another powder. Do not repeat again for 3 or 4 hours. For children $\frac{1}{4}$ to $\frac{1}{2}$ a powder. E. A. Goodman, chemist, 380 Yonge street, Toronto.	9·0	0·58	Present.	None ..	None ..	Doubt- ful.	Present.	
These tablets immediately relieve nervous and sick headache, neuralgia, pains in any part of the body ; perfectly safe—do not contain any opiates—are new and very efficacious. Dose—Two tablets at once ; repeat by taking 1 in $\frac{1}{2}$ hour if necessary. Pour les directions en Francais voir le circulaire inclus.	6·5	0·42	" ..	" ..	" ..	Present.	" ..	
Directions—Place this powder on the tongue and swallow with a draught of water, or stir the powder briskly in water and drink quickly ; if not relieved in one hour take another powder ; children under twelve years old, half a powder.	12·0	0·78	" ..	" ..	" ..	Doubt- ful.	None ..	

APPENDIX I.**BULLETIN No. 114.--COMMERCIAL EXTRACT OF LEMON.**

OTTAWA, January 16, 1906.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to submit herewith a report from Mr. A. McGill on Commercial Extract of Lemon, accompanied by a tabulated statement, showing the results of examining the samples collected in August and September last in accordance with your instructions. I beg to recommend the publication of the whole as Bulletin No. 114.

I have the honour to be, sir,

Your obedient servant,

THOMAS MACFARLANE,
Chief Analyst.

SESSIONAL PAPER No. 14

OTTAWA, January 16, 1906.

THOS. MACFARLANE, Esq., F.R.S.C., &c.,
Chief Analyst.

SIR,—I beg to hand you a report upon one hundred and ten (110) samples of Commercial Extract of Lemon. These sample represent the article as sold in eleven of the twelve inspectoral districts of Canada. No collections were made in the district of Calgary.

Extract of Lemon is very largely used for flavouring pastry, &c. Its name implies the possession of the characteristic flavour of lemons. This is known to be due to an essential oil (Oil of Lemons) which is present in the lemon peel. Oil of lemons is easily soluble in strong alcohol; and the British Pharmacopœia prescribes alcohol of 90 per cent strength as the proper solvent for lemon oil. According to the directions of the Pharmacopœia of 1898, one part by weight of fresh lemon peel is to be extracted by four parts, by volume, of alcohol of 90 per cent. The product is known as tincture of lemon.

The *Spiritus Limonis* (Spirit of Lemon) of the United States Pharmacopœia, is made from oil of lemons, grated lemon peel and 95 per cent alcohol, and must contain 5 per cent of lemon oil.

The percentage of oil of lemon required to be present in the B. P. tincture is not defined. It may however be stated as not less than such an amount as can be extracted from one part (by weight) of fresh lemon peel, when macerated with four parts (volume) of 90 per cent alcohol.

It is quite true that no legal or authoritative definition of extract of lemon exists; and we are not warranted in holding that commercial extract of lemon must be identical in character with pharmacopœial tincture of lemon. At the same time, it seems impossible that there should be any essential difference between the two, if extract of lemon is to possess, in any high degree, the properties of a flavouring extract. The pharmacopœial tincture is employed chiefly, or solely, for flavouring purposes. As already stated, it owes its value to the contained oil of lemon.

Oil of lemon consists chiefly of terpenes, which are only soluble in strong alcohol. It is therefore impossible to prepare a genuine extract of lemon without the use of strong alcohol. While these terpenes constitute about 90 per cent of oil of lemon, there is present, also, from 4 to 8 per cent of an aldehyde, known as citral; and this aldehyde contributes largely, if not chiefly, to the total flavour. Other substances are present in comparatively small amount; but the total flavor of the extract (or tincture) is made up of the combined flavours of these bodies. Citral may be obtained from other sources than lemon peel; e. g., from lemon grass, (*Audropagon Schoenanthus*). A solution of citral in dilute alcohol possesses a flavour closely resembling that of extract of lemon, but is not to be identified with this latter. There can be no doubt that much of the extract of lemon, sold in America is nothing else than a solution of citral in dilute alcohol; often coloured by turmeric or by coal tar yellows, in order to give it the appearance of a genuine lemon product. The chief inducement to the manufacturer is his ability to use weak alcohol, instead of 90 per cent alcohol which is necessary to dissolve true oil of lemon. In this connection I may quote the following from the report of the Connecticut Laboratory for 1901.

‘The materials for a quart of good extract cost about 75 cents; 60 cents for the alcohol, and 15 cents for the oil and peel, or about 2½ cents per ounce. Since an ounce bottle of lemon extract usually sells at retail for ten cents, there is a margin of about 7½ cents to cover cost of manufacture, cost of package and labels, and profits, even when the best materials are used.’

This applies, of course, to the United States, but may be considered as not far out of the way for Canada. If this view is tenable, there should be sufficient margin of profit to furnish no excuse for substitution of cheaper ingredients in manufacture. It will be seen by reference to the accompanying tables, that the usual retail price is 10 cents per ounce.

The alcoholic strength of the samples as sold is given in the following table :—

Above 90 per cent alcohol	2 samples.
From 80 to 90 per cent alcohol	11 "
" 70 to 80 " "	13 "
" 60 to 70 " "	9 "
" 50 to 60 " "	6 "
" 40 to 50 " "	16 "
" 30 to 40 " "	15 "
" 20 to 30 " "	35 "
Below 20 " "	3 "
<hr/>	
Total	110 "

It is thus seen that 63 per cent of these samples contain alcohol of less than 50 per cent strength. It is quite certain that such samples contain only traces of lemon oil. Inquiry among reputable druggists discovers the fact that the tincture of lemon of the British Pharmacopœia is practically unknown to Canadian trade. An essence of lemon, made from lemon oil instead of lemon peel, and approximately conforming to the United States Pharmacopœia, takes its place. This is probably due to the greater convenience of using oil of lemon, and to the fact that a product of definite and constant strength is more easily prepared in this way. I do not know that any complaint against such a substitution could be sustained, except upon purely technical grounds.

In Table A I have arranged all the samples containing one per cent or more of lemon oil, together with the alcoholic strength of these samples. They are arranged in the order of lemon oil content, and it will be noted that, speaking generally, the alcoholic strength is higher, with a higher percentage of oil. The following table gives a conspectus of the results of this examination, so far as lemon oil is concerned :—

Above 6 per cent of lemon oil	2 samples.
From 5 to 6 " "	3 "
" 4 to 5 " "	3 "
" 3 to 4 " "	5 "
" 2 to 3 " "	4 "
" 1 to 2 " "	15 "
Below 1 " "	78 "
<hr/>	
Total	110 "

Owing to the non-existence of a standard for extract of lemon, either as regards its alcoholic strength or its content in lemon oil, it is impossible to declare any of these samples adulterated, by reference to a standard extract.

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TABLE A.—SAMPLES containing one per cent or more of Lemon Oil with their alcohol content.

Serial.	Number of Sample.	Percentage of Lemon Oil.	Percentage of Alcohol.	Remarks.
1.	24075	6·2	83·20	Highest lemon oil.
2.	28202	6·0	87·96	
3.	24057	5·9	88·72	
4.	27072	5·6	88·36	
5.	24761	5·0	80·96	
6.	24054	4·7	88·72	
7.	24106	4·0	90·92	
8.	28509	4·9	79·84	
9.	27062	3·7	89·44	
10.	24767	3·7	87·96	
11.	28522	3·6	81·72	
12.	24498	3·4	92·04	Highest alcohol.
13.	25561	3·0	75·12	
14.	22405	2·9	80·96	
15.	29002	2·7	75·92	
16.	28207	2·6	82·44	
17.	24766	2·0	76·72	
18.	24760	1·8	73·44	
19.	28516	1·8	79·84	
20.	25572	1·6	71·68	
21.	28215	1·5	67·66	
22.	29016	1·5	75·92	
23.	26811	1·5	73·44	
24.	25559	1·5	73·44	
25.	24765	1·4	75·52	
26.	25562	1·4	73·44	
27.	29023	1·3	74·72	
28.	24104	1·2	61·96	
29.	28514	1·2	66·80	
30.	26980	1·2	61·20	
31.	27065	1·0	60·84	Lowest alcohol.
32.	25570	1·0	69·04	

In all the samples now reported, a careful examination has been made (by the refractometric method) for the presence of methyl alcohol. No methyl alcohol has been found in any sample.

The work herein recorded has been done by A. Valin.

I have the honour to be, sir,
Your obedient servant,

A. MCGILL

6-7 EDWARD VII., A. 1907
EXAMINATION OF

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.
				Quantity.	Value.	
1905.			<i>District of Nova Scotia—R. J. Waugh, Inspector.</i>		Cts.	
Aug. 15	Lemon Flavouring Extract.	27062	A. V. Rand, Wolfville, N.S.	6 ozs..	60	A. V. Rand, Wolfville, N.S.
" 15	"	27065	W. T. Stephens "	3 bots.	30	Simpson Bros., Halifax..
" 16	"	27066	Dodge & Co., Windsor, N.S.	3 "	75	McLaren, Toronto, Ont..
" 16	"	27067	Wentworth Stores, Windsor, N.S.	3 "	60	Pure Gold Co., Toronto, Ont.
" 16	Extract Lemon.....	27070	W. H. Worth, Windsor, N.S.	3 "	30	Greig Mfg. Co., Montreal
" 16	"	27071	J. Lynch & Son "	3 "	75	Brown & Webb, Halifax.
" 16	"	27072	R. B. Dokin "	3 "	60	R. B. Dokin, Windsor, N.S.
" 17	"	27080	E. Fahie, Halifax.....	3 "	30	Greig Mfg. Co., Montreal
" 17	"	27082	A. Hubley "	3 "	30	Brown & Webb, Halifax.
" 17	"	27085	J. A. Leaman & Co., Halifax	3 "	30	Not known.....
			<i>District of New Brunswick—J. C. Ferguson, Inspector.</i>			
" 15	Lemon Flavouring Extract.	24054	The Canadian Drug Co., Ltd., 27-29 Mill St., St. John, N.B.	3 bots.	50	The Canadian Drug Co., Ltd., St. John, N.B.
" 15	"	24057	C. S. Philps, cor. Douglas Ave. and Main St., St. John, N.B.	3 "	45	Davis, Lawrence & Co., Ltd., Montreal.
" 16	"	24058	Robert McAfee, 7 Waterloo St., St. John, N.B.	3 "	60	Pure Gold Mfg. Co., Toronto.
" 16	"	24061	F. E. Williams Co., Ltd., cor. Princess and Charlotte Sts., St. John, N.B.	3 "	90	McLaren's, Hamilton, Ont.
" 17	"	24063	Charles A. Clark, 49 Charlotte St., St. John, N.B.	3 "	30	I. E. Co., Toronto, Ont..
" 17	"	24065	D. J. Purdy, 325 Main St., St. John, N.B.	3 "	60	The Robert Greig Co., Ltd., Toronto.
" 22	"	24075	Sussex Mercantile Co., Sussex, King's Co., N.B.	3 "	60	Sussex Mercantile Co., Sussex, King's Co., N.B.
Sept. 1	"	24104	Harry G. McBeath, 239 Charlotte St., St. John, N.B.	3 "	60	Seely Mfg. Co., Windsor, Ont.
" 1	"	24105	S. H. Sherwood, 123 Queen St., St. John, N.B.	3 "	30	F. F. Dalley Co., Hamilton.
" 2	"	24106	T. B. Barker & Sons, 57-59 Dock St., St. John, N.B.	3 "	45	T. B. Barker & Sons, 57-59 Dock St., St. John, N.B.
			<i>District of P. E. Island—T. Moore, Inspector.</i>			
Aug. 12	Essence Lemon.....	24497	A. Gates & Co., Charlottetown	6 ozs..	48	Pure Gold Mfg. Co., Toronto.
" 12	"	24498	J. G. Jamieson "	6 "	48	J. G. Jamieson, Charlottetown.
" 12	"	28202	A. W. Reddin "	6 "	60	A. W. Reddin, Charlottetown.
" 15	"	28207	O. S. Gordon "	6 "	54	Dearborne & Co., St. John.

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LEMON EXTRACT.

Inspector's Report.	RESULTS OF ANALYSIS.										
	Specific Gravity of the Sample.	Approximate Alcohol.		Rotation in 2-dm. Tube.	Equivalent Lemon Oil.—Volume.	Specific Gravity of Oil—Free Extract —Diluted.	Alcohol Calculated —Volume.	Refractometer Work.			
		Weight.	Volume.					Scale Reading.	Alcohol Equivalent.	Alcohol Present.	Methyl Alcohol.
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.
.....	0·8223	90·18	93·41	+12·0	3·7	0·9738	89·44	46·5	17·98	18·23	None.
.....	0·9077	54·62	62·45	+ 3·2	1·0	0·9811	60·84	37·0	13·10	12·69	"
.....	0·9399	39·85	47·18	+ 0·8	0·2	0·9848	47·16	30·0	9·20	9·50	"
.....	0·9408	39·40	45·76	+ 0·3	0·1	0·9852	45·76	31·0	9·76	9·21	"
.. .	0·9691	22·00	26·86	+ 0·8	0·2	0·9907	27·12	24·5	6·22	5·44	"
.....	0·8978	59·04	66·78	+ 0·4	0·1	0·9795	66·80	38·0	13·64	13·54	"
.....	0·8262	88·68	92·30	+11·8	5·6	0·9741	88·36	47·0	18·23	18·00	"
.....	0·9742	17·92	21·99	+ 0·3	0·1	0·9923	22·20	22·0	4·82	4·54	"
.....	0·8929	61·13	68·76	+ 2·0	0·6	0·9790	68·68	39·0	14·19	13·92	"
Sceptre Brand.....	0·9773	15·42	18·98	+ 0·4	0·1	0·9935	18·52	21·0	4·19	3·71	"
.....	0·8271	88·36	92·05	+15·2	4·7	0·9740	88·72	48·5	18·98	18·08	None.
.....	0·8315	86·62	90·73	+19·0	5·9	0·9740	88·72	47·0	18·23	18·08	"
.....	0·9419	38·83	46·08	+ 0·6	0·2	0·9850	46·44	30·0	9·20	9·36	"
Invincible Brand.	0·9490	35·00	41·81	+ 0·6	0·2	0·9860	42·92	29·2	8·77	8·64	"
.....	0·9659	24·46	29·76	+ 0·2	0·1	0·9896	29·84	24·3	6·10	6·14	"
.....	0·9465	36·28	43·23	+ 0·4	0·1	0·9855	44·68	29·5	8·91	9·00	"
.....	0·8450	81·36	86·61	+20·0	6·2	0·9754	83·20	45·0	17·23	16·92	"
.....	0·9036	56·50	64·31	+ 4·0	1·2	0·9808	61·96	38·0	13·64	12·54	"
Topical Flavouring Ex- tract.	0·9671	23·54	28·68	+ 0·1	0·0	0·9900	29·28	24·5	6·22	5·87	"
.....	0·8231	89·88	93·20	+13·0	4·0	0·9734	90·92	49·0	19·23	18·54	"
.....	0·9426	38·44	45·65	+ 0·5	0·1	0·9853	45·40	29·8	9·09	9·14	None.
.....	0·8257	88·88	92·45	+11·0	3·4	0·9731	92·04	48·4	18·93	18·77	"
.....	0·8316	86·58	90·70	+19·5	6·0	0·9742	87·96	46·0	17·73	17·92	"
.....	0·8578	76·13	82·26	+ 8·5	2·6	0·9756	82·44	45·0	17·23	16·77	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.
				Quantity.	Value.	
1905.			<i>District of P. E. Is'and—T. Moore, Inspector—Con.</i>		Cts.	
Aug. 16	Essence Lemon.....	28214	W. W. Jenkins, Georgetown	6 ozs..	50	Tropical Extract Co., Toronto.
" 16	"	28215	A. McLaren & Co. " "	6 "	50	The Baird Co., Ltd., Woodstock, N.B.
" 16	"	28219	W. A. Pool, Lower Montague.	6 "	45	Tropical Extract Co., Toronto.
" 16	"	28221	H. F. Feehan, Mount Stewart.	3 bots.	24	Standard Extract Co., St. John, N.B.
" 16	"	28225	D. McKenzie, Kensington...	6 ozs..	30	" " "
" 18	"	28230	Jardine & Co., Summerside..	6 "	54	Chaput fils & Co., Montreal.
			<i>District of Quebec—C. E. Roy, Inspector.</i>			
Sept. 11	Extract Lemon.....	29002	Langlois & Paradis, 8 St. Peter St.	½ doz.	75	Henri Jonas & Co., Montreal.
" 11	"	29003	Ed. Morin & Co., Mountain Hill.	½ "	39	Ed. Morin & Co., Quebec
" 13	"	29013	A. B. Dupuis, 190 St. Paul	1 "	90	Imperial Extract Co., Toronto.
" 13	" ..	29014	H. Blouin, 153 " "	1 "	90	R. Herron & Co., Montreal.
" 14	" ...	29016	P. L. Turgeon, Marche Finlay.	½ "	45	Henri Jonas & Co., Montreal.
" 14	"	29017	Jos. Amyot, 45 Dalhousie..	1 "	85	Hy. Skinner, Kingston..
" 14	"	29018	Drouin et frère, 37 St. Andre	1 "	90	Ed. Morin & Co., Quebec.
" 18	" .	29023	A. Joseph & Son, Quebec....	1 "	90	Henri Jonas & Co., Montreal.
" 18	" .	29025	Leclerc & Letellier, Quebec..	1 "	1.25	F. F. Dalley, Hamilton..
" 19	" ...	29026	A. Carrier et fils, Lévis.....	½ "	20	Henri Jonas & Co., Montreal.
			<i>District of St. Hyacinthe—J. C. Rouleau, Inspector.</i>			
Aug. 21	Lemon Extract....	24758	A. E. Dartois & fils, Farnham.	3 bots.	30	Hudon & Orsali, Montreal.
" 22	Lemon Extract, H. J. & Co.	24759	C. T. Gervais, St. Constant.	3 "	45	Not known.....
" 23	Lemon Extract... .	24760	A. B. Prieur, Coteau Landing.	3 "	30	H. Jonas & Co., Montreal.
" 23	" Royal	24761	W. Brown & Sons, Pt. Fortune.	3 "	75	Davis, Lawrence & Co., Montreal.
" 24	"	24762	J. D. Campbell, Lachute....	3 "	75	Hudon, Hebert & Cie, Montreal.
" 29	Extract Citron 'Princess.'	24763	Damase Giroux, St. Jérôme Co., Terrebonne.	3 "	30	Laporte, Martin & Cie, Montreal.
" 30	Extract Citron.....	24764	G. Champoux, Joliette.....	3 "	30	Lyon, Silverman & Co., Montreal.
" 30	" .	34765	Pierre Poirier, St. Gabriel de B.	3 "	30	H. Jonas & Co., Montreal.
Sept. 1	"	24766	Julien Courteau, Nicolet....	3 "	30	" " "
" 6	"	24767	Pharmacie St. Hyacinthe, St. Hyacinthe.	3 "	60	Vendor.....

SESSIONAL PAPER No. 14

LEMON EXTRACT—Continued.

Inspector's Report.	RESULTS OF ANALYSIS.										
	Specific Gravity of the Sample.	Approximate Alcohol.		Rotation in 2-dm. Tube.	Equivalent Lemon Oil.—Volume.	Specific Gravity of Oil—Free Extract —Diluted.	Alcohol Calculated —Volume.	Refractometer Work.			
		Weight.	Volume.					Scale Reading.	Alcohol Equivalent.	Alcohol Present.	Methyl Alcohol.
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.
.....	0·9518	33·76	40·47	+ 0·5	0·1	0·9866	40·84	28·0	8·09	8·21	None.
.....	0·8920	61·50	69·11	+ 4·9	1·5	0·9793	67·66	40·0	14·73	13·69	"
.....	0·9708	20·68	25·27	+ 0·3	0·1	0·9912	25·60	22·0	4·82	5·12	"
.....	0·9536	32·50	39·04	+ 0·5	0·1	0·9870	39·44	27·9	8·04	7·83	"
.....	0·9728	19·00	23·28	+ 0·3	0·1	0·9919	23·44	23·0	5·39	5·86	"
.....	0·9720	20·50	25·07	+ 0·2	0·1	0·9913	25·18	22·5	5·06	5·06	"
.....	0·8748	68·88	75·90	+ 8·8	2·7	0·9773	75·92	41·8	15·63	15·42	None.
.....	0·9351	42·24	49·76	+ 0·5	0·2	0·9837	51·08	29·0	8·64	10·31	"
.....	0·9728	19·00	23·28	+ 0·4	0·1	0·9916	24·40	22·0	4·82	4·87	"
.....	0·9728	19·00	23·28	+ 0·3	0·1	0·9919	23·44	22·0	4·82	4·69	"
.....	0·8742	69·13	76·13	+ 4·5	1·5	0·9773	75·92	41·0	15·23	15·42	"
.....	0·9692	21·92	26·77	+ 0·2	0·0	0·9908	26·84	23·0	5·39	5·37	"
.....	0·9675	23·23	28·31	+ 0·4	0·1	0·9903	28·36	24·0	5·94	5·69	"
.....	0·8750	68·79	75·83	+ 4·2	1·3	0·9776	74·72	41·2	15·33	15·17	"
.....	0·9675	23·23	28·31	+ 0·5	0·1	0·9904	28·04	24·0	5·94	5·62	"
.....	0·9714	20·17	24·68	+ 0·3	0·1	0·9915	24·68	22·5	5·06	4·94	"
.....	0·9713	20·25	24·78	+ 0·3	0·1	0·9915	24·68	22·1	4·87	4·94	None.
Anchor Brand.....	0·9702	21·15	25·86	+ 0·5	0·1	0·9912	25·60	23·5	5·66	5·21	"
.....	0·8737	69·33	76·31	+ 6·0	1·8	0·9779	73·44	41·0	15·23	14·91	"
.....	0·8471	80·50	85·90	+16·0	5·0	0·9760	80·96	43·5	16·48	16·46	"
.....	0·9731	18·77	23·01	+ 0·2	0·1	0·9920	23·12	22·0	4·82	4·62	"
.....	0·9729	18·92	23·19	+ 0·4	0·1	0·9919	23·44	22·1	4·87	4·69	"
.....	0·9720	20·50	25·07	+ 0·4	0·1	0·9911	25·92	22·8	5·28	5·19	"
.....	0·8728	69·71	76·65	+ 4·5	1·4	0·9774	75·52	41·0	15·23	15·33	"
.....	0·8718	70·12	77·01	+ 6·5	2·0	0·9771	76·72	42·5	15·96	15·58	"
Extract bought from Kerry, Watson & Co., Montreal, afterwards diluted by vendor.	0·8275	88·18	91·90	+12·0	3·7	0·9742	87·96	46·5	17·98	17·92	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.
				Quantity.	Value.	
1905.			<i>District of Montreal—J. J. Costigan, Inspector.</i>		Cts.	
Aug. 24	Lemon Extract....	26811	Henri Jonas & Co., 391 St. Paul St., Montreal.	8 ozs.	75	Vendor
" 24	"	26812	Lyon Silverman, 390 St. Paul St., Montreal.	8 "	50	"
" 24	" ..	26813	P. Laurandean, 159 St. Paul St., Montreal.	1 bot.	25	Not known.....
" 28	"	26814	S. Chamberland, 3St. Antoine St., Montreal.	3 bots.	45	Imperial Extract Co., Toronto.
" 28	"	26815	" " .. 1 bot.	1 bot.	60	The Greig Mfg. Co., Montreal.
" 31	"	26816	Co-operative Grocery Co., 293 St. Antoine St., Montreal.	3 bots.	30	Not known.....
" 31	"	26817	" " .. 1 bot.	1 bot.	25	"
" 31	"	26818	Murphy Bros , 2607 St. Catherine, Montreal.	3 bots.	30	"
Sept. 1	"	26819	Z. Trudeau, 3571 Notre Dame St. Henri.	3 "	25	Marrotte & Leblanc, Montreal.
" 1	"	26820	P. Lebrun, 3531 Notre Dame St. Henri.	3 "	30	Henri Jonas & Co., Montreal.
			<i>District of Kingston--J. Hogan and A. E. Sanderson, Inspectors.</i>			
Aug. 16	Lemon Flavouring Extract.	28405	C. B. McLean, Bank St., Ottawa.	6 ozs.	30	Imperial Extract Co., Toronto.
" 16	"	28406	P. D. Herbert, Bank St., Ottawa.	8 "	50	Pure Gold Mfg. Co., Toronto.
" 21	"	28509	W. W. Gibson, King St., Kingston.	6 "	25	Not known.....
" 21	"	28511	A. Hoag, Princess St., Kingston.	6 "	40	A. Hoag, Princess St., Kingston.
" 21	"	28513	W. H. Medley, Princess St., Kingston.	6 "	40	W. H. Medley, Princess St., Kingston.
" 21	" ..	28514	James McLeod, Princess St., Kingston.	6 "	30	James McLeod, Princess St., Kingston.
" 22	"	28516	H. Wade, King St., Kingston	6 "	30	H. Wade, King St., Kingston.
" 22	"	28518	H. Skinner, Princess St., Kingston.	6 "	30	H. Skinner, Princess St., Kingston.
" 22	"	28520	A. Chown, Princess St., Kingston.	6 "	50	A. Chown, Princess St., Kingston.
" 22	"	28522	G. W. Mahood, Princess St., Kingston.	6 "	30	G. W. Mahood, Princess St., Kingston.
			<i>District of Toronto—A. E. Sanderson, Inspector.</i>			
Aug. 25	Lemon Flavouring Extract.	28412	J. Blood, 419 Yonge St., Toronto.	6 ozs.	20	Todhunter & Mitchell, Toronto.
" 25	"	28415	J. F. Moorish, 237 Yonge St., Toronto.	6 "	30	Pure Gold Mfg. Co., Toronto.
" 25	"	28418	McAuliffe Bros., 140 York St., Toronto.	6 "	30	A. M. Piper Co., Toronto.

SESSIONAL PAPER No. 14

LEMON EXTRACT—Continued.

Inspector's Report.	RESULTS OF ANALYSIS.										
	Specific Gravity of the Sample.	Approximate Alcohol.		Rotation in 2-dm. Tube.	Equivalent Lemon Oil—Volume.	Specific Gravity of Oil—Free Extract —Diluted.	Alcohol Calculated —Volume.	Refractometer Work.			
		Weight.	Volume.					Scale Reading.	Alcohol Equivalent.	Alcohol Present.	Methyl Alcohol.
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.
.....	0·8778	67·63	74·78	+ 4·8	1·5	0·9779	73·44	41·0	15·23	14·91	None.
.....	0·9520	33·47	40·14	+ 0·6	0·2	0·9865	41·20	28·8	8·53	8·29	"
This article put up in small fancy bottles of about 6 ozs.	0·9659	24·46	29·76	+ 1·5	0·4	0·9895	30·96	24·5	6·22	6·21	"
.....	0·9657	24·62	29·95	+ 0·0	0·0	0·9897	30·28	24·5	6·22	6·07	"
.....	0·9445	37·39	44·49	+ 0·5	0·2	0·9855	44·68	30·2	9·31	9·00	"
Universal Brand	0·9707	20·75	25·37	+ 0·3	0·1	0·9908	26·84	23·0	5·39	5·37	"
Standard Brand.....	0·9195	49·39	57·20	+ 1·0	0·3	0·9877	58·60	34·5	11·71	11·85	"
Sun Brand.....	0·9734	18·54	22·73	+ 0·4	0·1	0·9921	22·84	22·0	4·82	4·56	"
.....	0·9839	10·15	12·58	+ 0·0	0·0	0·9955	12·84	18·5	2·59	2·56	"
.....	0·9735	18·46	22·64	+ 0·7	0·2	0·9909	26·52	23·5	5·66	5·31	"
Sold as pure.....	0·9688	22·23	27·13	+ 0·3	0·1	0·9906	27·44	24·5	5·94	5·50	None
Guaranteed pure.....	0·9348	42·38	49·91	+ 0·5	0·2	0·9839	50·32	31·0	9·76	10·15	"
.....	0·8578	76·13	82·26	+13·0	4·0	0·9763	79·84	43·5	16·48	16·23	"
.....	0·9267	46·14	53·86	+ 0·6	0·2	0·9829	54·08	32·5	10·59	10·92	"
.....	0·8919	61·54	69·15	+ 2·9	0·9	0·9793	68·68	39·0	14·19	13·69	"
.....	0·8945	60·45	68·13	+ 4·0	1·2	0·9795	66·80	38·0	13·64	13·54	"
.....	0·8560	76·88	82·90	+ 6·0	1·8	0·9763	79·84	44·0	16·73	16·23	"
.....	0·9711	20·42	24·98	+ 0·2	0·1	0·9913	25·18	21·8	4·69	5·06	"
.....	0·9588	29·33	35·43	+ 0·5	0·2	0·9876	36·84	28·0	7·40	7·40	"
.....	0·8498	79·40	85·00	+11·5	3·6	0·9758	81·72	44·0	16·73	16·62	"
.....	0·9622	27·07	32·81	+ 0·1	0·0	0·9887	33·80	26·0	7·06	6·78	None.
.....	0·9663	24·15	29·40	+ 1·0	0·3	0·9898	29·92	23·5	5·66	6·00	"
.....	0·9650	25·14	30·57	+ 0·4	0·1	0·9895	30·96	25·0	6·50	6·21	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.
				Quantity.	Value.	
1905.			<i>District of Toronto—A. E. Sanderson, Inspector—Con.</i>		Cts.	
Aug. 25	Lemon Flavouring Extract.	28421	O. Cooper, 1099 Yonge St., North Toronto.	6 ozs..	30	Davidson & Hay, Ltd., Toronto.
" 26	" ..	28425	G. Gates, Oakville.....	6 "	30	R. B. Hayhoe & Co., Toronto.
" 26	" ..	28428	Thos. Harker, Oakville	6 "	25	Vendor
" 28	"	28437	W. H. Ryckman, 16 McNab St., Hamilton.	6 "	40	F. F. Dalley Co., Hamilton.
" 28	"	28438	" " ..	6 "	30	Vendor
" 28	"	28442	W. Carroll, 80 James St., Hamilton.	6 "	30	Imperial Extract Co., Toronto.
" 28	"	28445	P. & R. Lang, Dundas, Ont.	6 "	30	Todhunter, Mitchell & Co., Toronto.
			<i>District of London—T. Kidd, Inspector.</i>			
Aug. 12	Lemon Extract.....	22373	Charles Andrews, Seaforth..	3 bots.	30	Canada Spice and Grocery Co., London, Ont.
" 14	"	22379	S. A. Tood, Harrison.....	3 "	25	John Sloan & Co., Toronto.
" 14	"	22376	R. A. Hutchinson, Wingham	3 "	30	Gorman & Eckart, London.
" 15	"	22384	Appel & Fisher, Walkerton..	3 "	25	" " " "
" 16	"	22389	E. J. Godfrey, Meaford.....	3 "	30	Robert Greig & Co., Toronto.
" 22	" ..	22398	W. T. O'Neill, Clinton.....	3 "	75	Lind & Kerrigan, London.
" 22	"	22399	R. Graham, " ..	3 "	30	" " " "
" 17	"	22394	Darrough Bros, Collingwood.	3 "	30	Hamilton Coffee & Spice Co., Hamilton.
" 23	"	22405	J. W. Ortwien, Hensal.	3 "	30	F. F. Dalley, Hamilton..
" 24	"	22416	Ryan & Russell, London....	3 "	30	London Grocery & Spice Co., London, Ont.
			<i>District of Manitoba—W. M. Conklin, Inspector.</i>			
Sept. 11	Lemon Extract.....	25570	White Star Mfg Co., Winnipeg.	3 bots.	50	White Star M'f'ing Co., Winnipeg.
" 11	" ..	25571	The Dyson Co., Winnipeg...	3 "	45	The Dyson Co., Winnipeg
" 11	"	25572	Martin, Bole, Wynne Co., Winnipeg.	3 "	40	Martin, Bole, Wynne Co., Winnipeg.
" 11	"	25573	Codville & Co., Winnipeg...	3 "	45	Codville & Co., Winnipeg.
" 23	" ..	25556	Tritt & Shragge, Neepawa. .	3 "	60	" " "
" 23	" ..	25559	Wright & Co., Minnedosa...	3 "	75	Bole Drug Co., "
" 24	"	25561	Chapman & Co., Strathclair.	3 "	75	Campbell Bros & Wilson, Winnipeg.
" 24	"	25562	W. H. Speer, Shoal Lake....	3 "	75	Martin, Bole, Wynne Co., Winnipeg.
" 26	"	25565	S. Schooler, Gladstone	3 "	75	Blue Ribbon M'f'ing Co., Winnipeg.
" 26	"	25569	J. O'Rielly, Portage la Prairie	3 "	75	McLaren's, Hamilton..
			<i>District of Calgary—W. Fletcher, Inspector.</i>			

There were no collection made in this district.

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LEMON EXTRACT—Continued.

Inspector's Report.	RESULTS OF ANALYSIS.										
	Specific Gravity of the Sample.	Approximate Alcohol.		Rotation in 2-dm. Tube.	Equivalent Lemon Oil—Volume.	Specific Gravity of Oil—Free Extract —Diluted.	Alcohol Calculated —Volume.	Refractometer Work.			
		Weight.	Volume.					Scale Reading.	Alcohol Equivalent.	Alcohol Present.	Methyl Alcohol.
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
.....	0·9656	24·69	30·04	+ 0·5	0·2	0·9896	30·64	24·5	6·22	6·14	None.
.....	0·9700	21·31	26·04	+ 0·3	0·1	0·9908	26·84	24·0	5·94	5·37	"
.....	0·9650	25·14	30·57	+ 0·6	0·2	0·9895	30·96	25·0	6·50	6·21	"
.....	0·9563	30·83	37·14	+ 0·4	0·1	0·9674	38·16	27·0	7·58	7·68	"
.....	0·9680	22·85	27·86	+ 0·5	0·2	0·9904	28·04	22·9	5·33	5·62	"
.....	0·9690	22·08	25·95	+ 0·6	0·2	0·9907	27·12	23·5	5·66	5·44	"
.....	0·9681	22·77	27·77	+ 0·2	0·1	0·9904	28·04	24·0	5·94	5·62	"
.....	0·9708	20·68	25·27	+ 0·3	0·1	0·9909	26·52	23·8	5·83	5·31	None.
.....	0·9678	23·00	28·04	+ 0·5	0·2	0·9903	28·36	24·0	5·94	5·69	"
.....	0·9545	31·94	38·46	+ 0·5	0·2	0·9873	38·48	27·5	7·83	7·73	"
.....	0·9563	30·83	37·14	+ 0·5	0·2	0·9876	37·48	27·0	7·58	7·53	"
.....	0·9762	16·31	20·06	+ 0·7	0·2	0·9928	20·64	22·0	4·82	4·12	"
Sheriff's Extract.....	0·9423	38·61	45·83	+ 0·5	0·2	0·9851	46·08	31·6	9·54	9·29	"
.....	0·9709	20·58	25·17	+ 0·4	0·1	0·9911	25·92	23·2	5·49	5·19	"
.....	0·9682	22·69	27·68	+ 0·5	0·2	0·9905	27·76	23·8	5·83	5·56	"
.....	0·8562	76·79	82·12	+ 9·5	2·9	0·9760	80·96	45·0	17·23	1·46	"
.....	0·9740	18·08	22·18	+ 0·2	0·1	0·9920	23·42	22·2	4·93	4·62	"
.....	0·8927	61·21	68·83	+ 3·4	1·0	0·9789	69·04	45·0	17·23	14·00	None
.....	0·9440	37·67	44·79	+ 0·5	0·2	0·9848	47·16	30·8	9·65	9·50	"
.....	0·8823	65·71	73·03	+ 5·4	1·6	0·9782	71·68	39·0	14·19	14·55	"
.....	0·9582	29·73	35·89	+ 0·2	0·1	0·9878	36·84	27·0	7·58	7·47	"
.....	0·9645	25·50	30·98	+ 0·6	0·2	0·9895	30·96	24·0	5·94	6·21	"
.....	0·8795	66·91	74·13	+ 5·0	1·5	0·9779	73·44	41·5	15·46	14·91	"
.....	0·8708	70·52	77·36	+ 9·6	3·0	0·9775	75·12	40·0	14·73	15·25	"
.....	0·8788	67·21	74·40	+ 4·5	1·4	0·9779	73·44	40·0	14·73	14·91	"
.....	0·9269	46·05	53·77	+ 0·9	0·3	0·9829	54·08	32·3	10·49	10·92	"
.....	0·9425	38·50	45·71	+ 0·8	0·3	0·9852	45·76	29·5	8·92	9·91	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.
				Quantity.	Value.	
1905.			<i>District of British Columbia-- J. E. Millar, Inspector.</i>		Cts.	
Aug. 15	Lemon Extract.....	26984	H. Albert, Vancouver	3 bots.	60	B. C. Canning Co., Van- couver.
" 16	"	26990	Watson and Hall, Victoria..	3 "	60	The Pioneer Coffee and Spice Co., Victoria.
" 15	"	26973	J. F May, Vancouver.....	3 "	75	Shiriff's, Toronto.....
" 15	"	26974	C. E. Turner " ...	3 "	75	The Pure Gold Mfg Co., Toronto.
" 15	"	26975	The London Grocery Co., Vancouver.	3 "	75	Robinson M'f'ing. Co., Toronto.
" 15	"	26976	The Hudson Bay Co., Van- couver.	3 "	60	The Hudson Bay Co., Winnipeg.
" 15	"	26980	H. A. Edgett & Co., Van- couver.	3 "	75	Seely Mfg. Co., Detroit & Windsor.
" 16	"	26999	J. Moffat, Victoria.....	3 "	60	Imperial Extract Co., Toronto.
" 16	" ...	28004	West End Grocery, New Westminster.	3 "	60	Hamilton Coffee & Spice Co., Hamilton, Ont.
" 16	"	28006	T. S. Annandale, New West- minster.	3 "	45	B. C. Canning Co., Van- couver.

Samples made in the laboratory from whole lemon peel—not the outer pericarp only.....
" " in strict accordance with B. P. directions.....

Determinations of lemon oil in solution were made daily during the period of seven (7) days ; and further increase occured during the seven-day period.

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LEMON EXTRACT—*Concluded.*

Inspector's Report.	RESULTS OF ANALYSIS.										
	Specific Gravity of the Sample.	Approximate Alcohol		Rotation in 2-dm. Tube.	Equivalent Lemon Oil—Volume.	Specific Gravity of Oil—Free Extract —Diluted.	Alcohol Calculated —Volume.	Refractometer Work.			
		Weight.	Volume.					Scale Reading.	Alcohol Equivalent.	Alcohol Present.	Methyl Alcohol.
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.
.....	0.9434	37.00	45.16	+ 0.4	0.1	0.9853	45.40	30.2	9.30	9.14	None.
.....	0.9584	29.60	35.74	+ 0.3	0.1	0.9881	35.84	27.0	7.58	7.20	"
.....	0.9384	40.60	47.99	+ 0.4	0.1	0.9844	48.32	31.0	9.76	9.79	"
.....	0.9364	41.60	49.07	+ 0.2	0.1	0.9841	49.60	31.0	9.76	10.00	"
.....	0.9720	19.67	24.08	+ 0.3	0.1	0.9916	24.40	22.4	5.04	4.87	"
.....	0.9237	47.50	55.27	+ 1.0	0.3	0.9826	55.24	34.0	11.43	11.15	"
.....	0.8988	58.59	66.34	+ 3.8	1.2	0.9810	61.20	40.7	14.08	12.38	"
.....	0.9615	27.57	33.39	+ 0.3	0.1	0.9887	33.80	26.0	7.06	6.78	"
.....	0.9403	39.65	46.97	+ 0.3	0.1	0.9852	45.76	30.5	9.48	9.21	"
.....	0.9839	10.15	12.58	+ 0.2	0.1	0.9955	12.88	19.0	2.93	2.56	"
.....	0.8744	69.04	76.05	+ 1.7	0.5	0.9777	74.32	43.8	16.43	15.08	"
.....	0.8753	68.67	75.72	+ 4.4	1.4	0.9779	73.44	44.5	16.98	14.91	"

results obtained as follows :—1st day =1.0%, 2nd day = 1.2%, 3rd day = 1.2%, 4th day =1.4%. No

APPENDIX J.

BULLETIN No. 115.—BLUESTONE AND FORMALIN.

OTTAWA, March 6, 1906.

W. J. GERALD. Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to submit the following report on the inspection of samples of Blue Stone and Formalin, the collection of which was authorized in your letters of January 5 and February 23 last.

In correspondence with the Department concerning bluestone the necessity of this inspection was urged by the Manitoba Grain Growers Association on the ground that a very large proportion of the wheat crop of 1905 had been damaged by smut in districts where great care had been taken to properly treat the seed with solution of sulphate of copper previous to sowing. This request was forwarded through the Department of Agriculture, and similar representations from private parties were received through the Deputy Minister of Trade and Commerce. A later communication, dated February 13, was received by this branch from Mr. C. A. Clark, Seed Commissioner of the Dominion Department of Agriculture, in which the necessity was explained for having the results of the inspection published among the farmers of the North-west at the earliest possible date and mentioning formalin as another germicide requiring the attention of the Department.

Accompanying this report you will find, in Table I, all the information we possess regarding the origin of 23 samples of bluestone, obtained for the most part in the North-west. The collection was ordered of a much larger number in the province of Manitoba, but the inspector was unable to obtain more, without simply duplicating brands of the same origin. The table also contains the result of testing these samples, which work was performed by Mr. A. Valin. Pure bluestone consists simply of one molecule of cupric sulphate and five of water of crystallization. Its percentage composition is as follows :—

Cupric Oxide.....	31·86	per cent.
Sulphuric Anhydride....	32·06	“
Water of Crystallization	36·08	“
	100·00	“

It ought, therefore, to contain at least 30 per cent of cupric oxide and be free from iron oxide and alumina. It is defined in the British Pharmacopœia, which exacts that it should yield ‘no characteristic reaction with the test for lead, arsenium, zinc or aluminium, and not more than the slightest reactions with the tests for iron.’ From the table it will be seen that some of the samples contain as much as 34·37 per cent of cupric oxide, which high percentage is probably owing to loss of some of the water of crystallization. Six out of the 23 samples contain less than 30 per cent of cupric oxide and the lowest shows 28·62. In only one case does the quantity of alumina and ferric

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oxide exceed 1·0 per cent and this I have marked as 'adulterated.' The result of the inspection is therefore in percentages as follows :—

Genuine.....	73·9	per cent.
Of inferior quality.....	21·7	"
Adulterated.....	4·4	"
	<hr/>	
	100·0	"

Under the circumstances, the opinion which seems now to exist in the North-west, to the effect that the prevalence of smut in the crop of last year was owing to the inferior quality of the bluestone sold to the farmers, does not appear to be well founded.

Table II, also attached to this report, gives the results of inspecting formalin. This article is not mentioned in the British Pharmacopœia, but in Mercks Index it is defined as a 40 per cent solution of Formaldehyde. According to Leach, the common preservatives on the market known as 'Preservaline,' 'Freezine,' 'Iceline,' &c., are produced from diluting the 40 per cent solution known as formalin, which has therefore a recognized strength. The ten samples described in the table, although bought from different vendors, represent for the most part, the article manufactured by the Perth Amboy Chemical Co., of Perth Amboy, New Jersey. These vary, according to the assays of Mr. A. Valin, in the quantities they contain of formaldehyde, from 37 to 39·4 per cent, and in the absence of any standard 'limits of variability' cannot very well be characterized otherwise than as 'genuine.' One sample has been found to contain only 25·6 per cent and is considered to be adulterated.

I have the honour to be, sir,

Your obedient servant,

THOMAS MACFARLANE,
Chief Analyst.

TABLE I.—INSPECTION OF 23 SAMPLES OF BLUESTONE (SULPHATE OF COPPER).

Date of Collec- tion.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	RESULTS OF ANALYSIS.		Remarks by Chief Analyst.
			Quan- tity.	Value.		Cupric oxide.	Alumina and ferric oxide.	
1906.		<i>District of Ottawa—A. E. Sanderson, Inspector.</i>		\$ cts.		p. c.		
Jan. 25	29207	Bate & Sons, wholesale, Canal Basin, Ottawa.	½ lb.	0 05	Imported by W. & F. P. Currie, Montreal	29·26	0·36	Inferior in quality.
" 25	29209	S. J. Major, wholesale, York St., Ottawa	½ "	0 05	" "	33·01	0·24	Genuine.
" 25	29210	F. J. Castle Co., Ltd., wholesale, Queen St., Ottawa.	½ "	0 05	Copeland Co., Montreal.....	34·37	0·06	"
" 25	29211	J. L. Rochester, Ltd., cor Bank and Sparks Sts., Ottawa, druggists.	½ "	0 05	Evans & Sons, Montreal.	34·37	0·16	"
Feb. 6	29212	J. A. Mosgrove, cor. Bank and Nepean Sts., Ottawa, druggist.	½ "	0 08	Lyman Sons & Co., Montreal.....	32·12	0·08	"
		<i>District of Winnipeg—W. M. Conklin, Inspector.</i>						
Feb. 8	25718	The Hunter, Smith Hardware Co., Brandon.	3 lbs.	0 25	Miller, Morse Co., Winnipeg	31·81	0·48	Genuine.
" 8	25719	Johnson & Co., Brandon	3 "	0 25	The Ashdown Hardware Co., Winnipeg..	30·77	0·60	"
" 8	25720	Smith & Burton, Brandon.....	3 "	0 25	Brown & Mitchell, Brandon.	31·81	0·56	"
" 9	25721	The Manitoba Hardware and Lumber Co., Virden.	3 "	0 25	The Ashdown Hardware Co., Winnipeg..	30·43	0·20	"
" 10	25722	A. S. Smith, Moosomin.....	2½ "	0 10	" "	31·41	0·70	"
" 13	25723	Smith & Ferguson, Regina.....	3 "	0 25	The Laird Forwarding Co., Regina.....	31·18	0·28	"
" 13	25724	Western Hardware Co., Regina.....	3 "	0 25	Geo. D. Wood & Co., Winnipeg.....	31·18	0·30	"
" 13	25725	R. H. Williams & Son, Regina	3 "	0 25	The Laird Forwarding Co., Regina	28·85	0·35	Inferior in quality.
" 15	25726	Foley, Lock & Larson, Winnipeg	2½ "		The American Smelting Co., Omaha.....	30·43	0·40	Genuine.
" 15	25727	The Ashdown Hardware Co., Winnipeg..	2½ "		" "	28·93	0·46	Inferior in quality.
" 24	25735	The Bole Drug Co., Winnipeg.....	3 "	0 20	The Sharland Co., London, Eng.....	28·93	0·04	"
" 27		W. J. Curry, Lauder, Man .....			.....	31·18	0·60	Genuine.
		<i>District of Calgary—W. Fletcher, Inspector.</i>						
Feb. 19		S. H. Caswell & Co., McLean, Assa.....			.....	34·37	0·64	Genuine.
" 20	28622	C. A. Wallace, Calgary, Alta.....	1 lb.	0 25	Marshall, Wells & Co., Winnipeg.....	28·62	1·16	Adulterated.
" 20	28623	W. Maclean	1 "	0 25	Bole Drug Co., Winnipeg.....	31·18	0·60	Genuine.
" 20	28624	Jas. Findlay	1 "	0 25	Marshall, Wells & Co., Winnipeg.....	30·43	0·22	"
" 20	28625	Curry & Cope	1 "	0 25	" "	28·85	0·76	Inferior in quality.
" 20	28626	Bole Drug Co.	1 "	0 25	Bole Drug Co., Winnipeg.....	30·43	0·10	Genuine.

TABLE II.—INSPECTION OF 11 SAMPLES OF FORMALIN.

Date of Collec- tion.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	RESULTS OF ANALYSIS.	Remarks by Chief Analyst.
			Quan- tity.	Value.		Formalde- hyde.	
		<i>District of Winnipeg—W. M. Conklin, Inspector.</i>	Ozs.	\$ cts.		p. c.	
Feb. 21	25728	F. A. Wilson, Morden ..	24	0 75	Martin, Bole, Wynne Co., Winnipeg ..	38.4	Genuine.
" 21	25729	A. P. Brown ..	24	0 60	Not known ..	25.6	Adulterated.
" 22	25730	W. J. Carson, Killarney. ..	18	0 40	Park, Davis & Co., Walkerville, Ont ..	38.8	Genuine.
" 22	25731	Killarney Drug Co., Killarney ..	18	0 60	Not known ..	39.6	"
" 22	25732	Central Drug Hall, Boissevain ..	18	0 60	Martin, Bole, Wynne Co., Winnipeg ..	38.6	"
" 22	25733	W. J. Hilton, Boissevain ..	18	0 60	" ..	39.2	"
" 24	25734	The Bole Drug Co., Winnipeg ..	24	0 40	Perth Amboy Chemical Co., Perth Amboy, New Jersey.	38.6	"
" 24	25736	The Martin, Bole, Wynne Co., Winnipeg.	24	0 40	" ..	39.4	"
" 26	25737	J. L. Hill, Portage la Prairie ..	18	0 60	The Martin, Bole, Wynne Co., Winnipeg ..	37.0	"
" 26	25738	W. A. Voornan, Portage la Prairie ..	18	0 60	The Bole Drug Co., Winnipeg ..	37.6	"
" 26	25739	S. B. Cowan, Portage la Prairie ..	18	0 60	The Martin, Bole, Wynne Co., Winnipeg ..	37.8	"

APPENDIX K.

BULLETIN No. 116.—CATTLE FEED AND STOCK FOOD.

OTTAWA, March 16, 1906.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—Referring to your letter of instructions dated November 16, 1905, I beg now to report regarding the samples of cattle and other feeding stuffs the collection of which was then authorized. As you informed me the collection of the samples was desired by the Department of Agriculture and the Ontario Agricultural College with the view of ultimately legislating as regards their sale or establishing ‘limits of variability,’ and perhaps standards, according to which such feeding stuffs might be judged. The inspection and analysis of these are of course included in the administration of the Adulteration Act according to which the expression ‘food’ includes every article used for food or drink by man or by cattle.

Table I appended to this report contains a description of 127 samples of feeding stuffs collected in the different Inland Revenue districts as follows :—

Nova Scotia.....	9 samples	New Brunswick	9 samples.
Prince Edward Island...	12 “	Quebec	16 “
Montreal.....	17 “	Ottawa	21 “
Kingston.....	12 “	London.....	17 “
Calgary.....	4 “	British Columbia.....	10 “
		Total.....	
		127 samples.	

The source of all these samples is given in the table as well as the results of the microscopical and chemical examinations. Among the latter will be found all the determinations usually made in analysing feeding stuffs. To these are added the percentages of extract by 92 per cent hot alcohol and by water after alcohol. By using these it has been found possible to give, by difference and approximatively, the percentage of starch present.

It will be observed that these feeding stuffs are sold under very diverse names, a circumstance which renders their inspection a difficult matter. In order to enable discriminations to be made as regards their characters and values I have made an attempt to arrange them in different groups, according to their names, and giving at the same time the percentages of those of their constituents which are usually considered the most important in judging of their quality. I have placed the more concentrated feeding stuffs first among the groups, and in these the various samples are arranged in the order of their value according to the index furnished by the total proteids, beginning with those highest in that percentage. In order to ascertain any further particulars as

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regards the individual samples thus placed in juxtaposition, their serial numbers are given by means of which their descriptions may be found in the general table (I).

No. of Sample.	Name.	Serial Number	Total proteids per cent.	Fat per cent.	Crude Fibre per cent.
28537	Oil cake meal	86	36.00	4.60	9.00
24120	" "	12	34.40	1.24	8.60
24791	" "	41	33.37	6.32	10.60
24796	" "	45	32.37	2.22	8.68
28256	" "	27	31.94	3.76	8.10
24793	" "	42	31.50	2.32	7.06
28235	" "	19	31.25	7.68	8.30
28615	" "	117	31.06	8.08	10.40
24794	" "	43	30.62	1.52	7.18
24795	" "	44	30.62	2.72	6.00
22448	" "	105	30.19	5.48	12.10
28056	" "	127	30.13	6.52	10.25
28465	" "	80	30.06	0.44	9.70
28259	" "	29	29.55	6.24	7.20
24787	" "	38	29.31	4.20	9.75
29064	" "	31	28.87	7.28	11.00
26883	" "	61	28.06	12.48	10.00
22455	" "	110	27.31	4.92	10.35
24789	" "	39	27.18	6.64	6.50
24797	" "	46	27.12	5.52	7.50
22442	" "	99	26.24	4.12	13.50
28260	" "	30	25.88	8.52	3.85
28539	" "	87	25.06	5.40	12.50
22458	Ground flax meal	113	22.56	4.44	10.60
28466	Linseed meal	81	21.19	7.80	22.75
28535	Oil cake meal	85	11.56	1.84	7.50
28050	Cocoonut oil cake	124	10.93	13.40	13.05
Average of the foregoing 27 samples			27.94	5.39	
26882	Gluten meal	60	33.68	1.80	5.50
28467	" "	82	20.21	0.40	4.00
Average of the foregoing 2 samples			26.94	1.10	
28463	Calf meal	78	23.25	2.36	5.40
28469	Bibbys cream	84	13.94	5.28	3.95
28464	Bibbys calf feed	79	13.81	3.00	4.05
Average of the foregoing 3 samples			17.00	5.32	
26866	Shorts	51	19.25	3.56	8.80
25492	"	33	17.94	5.60	8.95
28454	"	69	17.18	3.20	8.30
25494	"	35	16.19	5.44	6.95
28043	"	119	15.75	2.76	8.25
28452	"	67	15.37	3.40	7.10
26873	"	55	14.87	4.12	9.35
28453	"	68	14.56	3.32	6.65
26865	"	50	14.00	3.40	10.70
Average of the foregoing 9 samples			16.12	3.87	
24127	Middlings	15	14.50	2.36	8.05
28455	Low grade flour	70	13.62	1.56	1.00
27126	Middlings	7	12.68	3.08	8.60
Average of these 3 samples			13.60	2.33	

No. of Sample.	Name.	Serial Number	Total proteids per cent.	Fat per cent.	Crude Fibre per cent.
28054	Bran.....	126	17·06	4·40	6·80
25411	"	32	15·75	4·52	9·30
22434	"	97	15·75	2·80	12·00
24133	Wheat bran.....	17	15·31	2·40	12·50
22451	Bran chop.....	108	15·25	3·16	12·65
25496	Bran.....	37	15·13	4·32	7·75
22457	"	112	14·63	2·68	9·90
28253	"	25	14·50	2·16	9·00
28450	"	65	14·00	1·32	11·30
28552	"	94	14·00	2·96	13·50
28610	"	114	13·63	1·60	10·75
28544	"	90	13·53	3·20	14·00
28451	"	66	13·56	1·48	12·25
28546	"	92	13·56	2·68	12·25
22456	"	111	13·56	2·04	10·00
27120	"	3	13·37	2·92	9·40
22444	"	101	13·12	1·84	12·50
24118	"	19	13·10	2·08	8·00
28244	"	23	12·94	2·36	9·15
28254	"	26	12·75	1·20	8·80
28041	"	18	12·25	2·12	10·50
26863	"	48	12·68	2·60	13·60
28252	"	24	12·12	1·72	11·50
26867	"	52	12·06	2·28	11·65
28541	"	89	11·87	2·40	11·75
28540	"	88	11·81	2·72	14·00
27117	"	1	11·18	2·20	9·60
27125	"	6	11·12	2·20	15·50
28449	"	64	11·00	1·28	12·30
Average of the foregoing 29 samples.....		.....	13·47	2·47	.....
26876	Moulée.....	58	15·75	2·28	8·50
25493	"	34	12·31	3·60	6·85
26884	"	62	11·81	1·72	9·50
26864	"	49	11·06	2·48	16·75
Average of the 4 preceding samples.....		.....	12·73	2·37	.....
28458	Horse and cattle feed.....	73	21·25	1·72	5·24
22447	"	104	20·94	5·44	9·25
22445	"	102	15·31	2·84	15·75
24790	Kennedy's cattle feed.....	40	14·87	2·16	2·25
28613	Cattle feed	116	14·06	0·96	10·20
22446	Horse and cattle feed.....	103	12·37	2·00	7·80
26875	Grain feed	57	12·25	2·60	9·00
28459	Pratts horse and cattle feed.....	74	11·50	2·32	5·35
26860	Horse feed	47	10·25	2·20	7·80
24128	Cattle feed.....	16	8·75	2·24	7·70
24134	"	18	8·75	1·92	3·75
27118	"	2	8·37	2·20	8·85
28468	"	83	8·31	2·60	7·40
26885	Banner brand cattle feed.....	63	7·87	2·16	9·50
Average of the 14 preceding samples.....		.....	12·49	2·38	.....
28611	Oat chop.....	115	11·43	1·88	6·95
22454	Chopped oats	109	11·25	2·48	10·78
26872	Crushed oats	54	11·06	4·48	10·65
Average of 3 preceding samples.....		11·24	2·94

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No. of Sample.	Name.	Serial Number	Total proteids per cent.	Fat per cent.	Crude Fibre per cent.
28456	Corn and oat meal.....	71	15.37	1.52	10.25
24129	Cracked corn and oats.	13	10.93	2.92	5.70
24130	" "	14	9.63	2.72	7.55
27121	Corn and oat feed.....	4	7.19	2.24	12.70
	Average of 4 preceding samples...		10.78	2.35	.....
22443	Chop corn.....	100	13.12	2.48	4.50
22449	Corn chop.....	106	10.06	2.32	3.55
26874	Corn meal feed.. . . .	56	8.75	3.12	1.50
26871	Cracked corn.. . . .	53	7.87	2.00	3.00
25495	Corn meal feed.....	36	.....	.....	.....
	Average of 5 preceding samples.. . . .		.....	.....	.....
26877	Barley meal....	59	11.37	1.60	8.25
22450	Barley chop.....	107	9.19	1.40	6.60
	Average of 2 preceding samples.. . . .		10.28	1.50	.....
24119	Chop feed.. . . .	11	14.90	2.60	4.05
28563	"	96	11.93	1.72	12.50
28051	"	125	11.80	2.40	7.00
28047	Creamery chop.. . . .	123	11.50	2.40	3.35
28257	Chop feed	28	11.00	1.60	7.25
28553	"	95	10.93	0.60	6.25
27128	"	9	10.62	2.48	7.50
28545	"	91	10.62	2.12	9.50
27127	"	8	10.50	1.84	8.70
28550	"	93	10.50	1.52	12.50
28044	Standard chop.	120	10.31	2.52	8.25
28237	Chop feed.....	21	9.81	1.88	10.45
22435	Corn chop....	98	8.75	2.00	5.00
28046	Barley chop....	122	8.69	2.04	5.85
27124	Chop feed	5	8.31	1.88	5.50
28238	"	22	8.25	2.08	5.75
28045	Dairy chop.....	121	8.13	1.20	14.60
28457	Mixed chop.	72	7.00	0.00	2.65
28236	Chop feed.....	20	5.87	1.04	10.80
	Average of the 19 preceding samples...		9.97	1.78	.....
28460	Provender	75	10.56	1.00	3.28
28462	"	77	7.25	1.20	11.00
28461	"	76	6.50	1.52	6.20
	Average of 3 preceding samples.....		8.10	1.24	.....

From the foregoing list it will be perceived that there is generally a wide variation in the quality of the different samples belonging to the same group of feeding stuffs. Beginning with oil cake meal, the proteids range from 21.19 to 36.00 and the fat from 0.44 to 8.52 per cent. Much of this difference is due to the different methods of manufacturing, but the microscopical examination shows in some cases the presence of foreign substances. The latter circumstance it is possible in two instances (Serial Nos. 85 and 87) to characterise as adulteration. The average percentage of proteids in the oil cake meals is 27.94 which is quite low. In Massachusetts, to be of *standard quality*, 'new process linseed meal' should contain 38 per cent protein and 2 per cent fat; 'old process' 32 per cent protein and 6 per cent fat. Of the 27 samples described in Table I not more than two or three could come up to these standards. According to the report

of the Departmental Committee appointed by the Board of Agriculture in England to inquire into the adulteration of fertilizers and feeding stuffs it has become a general habit among farmers to use the term oil cake as synonymous with linseed cake, and the terms 'mixed' or 'compound' cake is recommended for all others. The next two groups, gluten meal and calf feed, show differences also, but without a legal definition or manufacturers guarantee it is impossible to say whether or not they are adulterated. The Massachusetts standard for gluten meal is 35 per cent protein and 2 per cent fat. It is reasonable to assume that shorts, middlings and bran are all by products from the milling of wheat, and that the presence of other grain products in them is inadmissible. Nevertheless an admixture of oats has been detected in some of the samples examined. In the present state of the question, however, it would not seem possible to follow these up as cases of adulteration. As regards bran, the percentage of total proteids only varies from 11 to 15.75, so that it would seem practicable to come to a decision as to what the 'limits of variability' or 'margins of deviation' in the case of bran ought to be. The Massachusetts standard for bran is 15 to 17 per cent of protein and 4.5 per cent fat.

With regard to the starchy feeds enumerated in Table I, I cannot find such names as cattle feed, moulée or chop feed defined in the Massachusetts bulletins. Standard quantities are however given for the following feeding stuffs with which the averages of Table I can be compared :

	Massachusetts Standards.		Canadian Averages.	
	Protein.	Fat.	Total Proteids.	Fat.
	p. c.	p. c.	p. c.	p. c.
Ground oats.....	11	4.0	11.24	2.94
Barley meal.....	11	1.5	10.28	1.50
Corn meal.....	9	3 to 4	.....	.....
Provender.....	10	4.0	8.10	1.24
Corn and oat feed.....	8 to 10	3 to 5	10.78	2.35

This comparison does not show extraordinary differences, but when the analyses of the samples in these groups are referred to it will be seen that some of them are too low both as regards proteids and fat. When the total proteids sink to 6.50 and the fat to 1 per cent there is very good reason for suspecting adulteration. It will however be found impossible to pronounce definitely on this point until legislation has been had on the subject.

Several of the states to the south of us have already taken action in this direction and the new feeding stuff laws of Massachusetts and Wisconsin afford valuable hints as to what should be done in Canada. Appended to this report will be found a copy of the new feed law of the State of Massachusetts many of the provisions in which deserve to be adopted. I would recommend the preparation of a Bill for the inspection of feeding stuffs and stock foods, constructed somewhat in the same way as the Fertilizers Act, but incorporating such provisions in the above mentioned legislation as have been found advantageous and practicable.

At the same time that the feeding stuffs described in Table I were collected the food inspectors also obtained other samples of cattle medicines and so called 'stock foods.' Of the latter there were 40 samples taken, some of them bearing other names such as 'cattle spice,' 'food syrup' and 'herb food.' They are described in Table II of this report, and in their examination, the same method has been to a large extent followed, which was applied to the cattle feeds. From these they are however very different, being largely artificial mixtures of grain products, oil cake meal, organic substances and inorganic salts. They would appear to be partly nutritive, partly condimental and partly medicinal. On account of their varied characters their examination has been difficult and may in some instances be incomplete. In most of them the total

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ash is high and in many of them the ash soluble in water is very high and consists almost entirely of common salt. It is certainly not necessary that as much as 20 per cent of it should be required for the preservation of a sound and wholesome food, and its addition seems to partake of the nature of a fraud. Occasionally sulphate of soda is present, perhaps to save time by administering a laxative simultaneously with the food, a practice which a veterinarian might possibly condemn. For an instance of this sort see Serial No. 22. Sometimes the total proteids are quite high which is no doubt owing to an admixture of oil cake meal. On the other hand, so far as nutritive value is concerned, many of these stock foods appear to be no better than bran or 'chop.' It is possibly on account of the added salt that these are dignified by the name of 'stock food.' In general these stock foods show also high percentages of alcohol extract, water extract and crude fibre, but there has been no time to examine into the significance of these figures, nor indeed is it at present necessary. Sufficient information is given in Table II to support the view that some regulation of the sale of these stock foods would be in the interest of the agricultural public. In all likelihood, what is required is to bring them under the operation of the same act as has been above suggested for feeding stuffs, and probably, in addition, it would be necessary to cause them to be registered as has been done with fertilizers for many years past.

Recommending the publication of this report,

I have the honour to be sir,

Your obedient servant,

THOMAS MACFARLANE,
Chief Analyst.

CHAP. 122 OF ACTS AND RESOLVES OF MASSACHUSETTS FOR 1903.

An Act to Regulate the Sale of Concentrated Commercial Feed Stuff's.

STATEMENTS TO BE ATTACHED TO PACKAGES.

Be it enacted, etc., as follows :

Section 1. Every lot or parcel of concentrated commercial feed stuff, as defined in section two of this act, used for feeding farm live stock, sold, or offered or exposed for sale within this Commonwealth, shall have affixed thereto, in a conspicuous place on the outside thereof, a plainly printed statement, clearly and truly certifying the name, brand or trademark under which the article is sold for feeding purposes, the name and address of the manufacturer, importer or dealer, the net weight of the package, and the minimum percentage of crude protein, reckoning one per cent of nitrogen equal to six and one-fourth per cent of protein, and crude fat which it contains ; the several constituents to be determined by the methods adopted by the Association of Official Agricultural Chemists of the United States. If the feed stuff is sold in bulk, or if it is put up in packages belonging to the purchaser, the agent or the dealer shall, upon request of the purchaser, furnish him with the certified statement described in this section.

DEFINES FEED STUFFS INCLUDED IN LAW.

Section 2. The term 'concentrated commercial feed stuff,' as used in this Act, shall include cottonseed meals, linseed meals, pea meals, bean meals, peanut meals, cocoanut meals, gluten meals, gluten feeds, maize feeds, starch feeds, sugar feeds, dried distillers'

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grains, dried brewers' grains, dried beet refuse, malt sprouts, malt refuse, hominy feeds, cerealine feeds, rice meals, oat feeds, corn and oat feeds, corn, oat and barley feeds, chop feeds, corn bran, ground beef or fish, scraps, meat and bone meals, mixed feeds,—except as otherwise provided in section three of this Act,—clover meals, condimental stock and poultry foods, patented, proprietary or trade-marked stock and poultry foods, and all other materials of a similar nature not included in section three of this act.

DEFINES FEED STUFFS EXEMPT FROM LAW.

Section 3. The term 'concentrated commercial feed stuff,' as used in this Act, shall not include hays and straws, the whole seeds nor the unmixed meals made directly from the entire grains of wheat, rye, barley, oats, Indian corn, buckwheat and broom corn. Neither shall it include wheat bran or wheat middlings not mixed with other substances but sold separately as distinct articles of commerce, nor wheat bran and wheat middlings mixed together, not mixed with any other substances, and known in the trade as 'mixed feed,' nor pure grains ground together unmixed with other substances.

PENALTY FOR VIOLATION OF PREVIOUS SECTIONS.

Section 4. Any manufacturer, importer, agent or other person selling, offering or exposing for sale any concentrated feed stuff included in section 2 of this Act, without the printed statement required by section one of this Act, or with a label stating that the said feed stuff contains substantially a larger percentage of either crude protein or crude fat than is actually present therein, shall be fined fifty dollars for the first offence and one hundred dollars for each subsequent offence.

DIRECTOR OR DEPUTY REQUIRED TO COLLECT AND ANALYSE SAMPLES.—PENALTY FOR INTERFERENCE.—RESULTS TO BE PUBLISHED.

Section 5.—The director of the Hatch experiment station of the Massachusetts Agricultural College is hereby authorized, in person or by deputy, to enter any premises where feed stuffs are stored and to take a sample, not exceeding two pounds in weight, from any lot or package of any commercial feed stuff used for feeding any kind of farm live stock as defined in section two or of excepted materials named in section three of this Act, which may be in possession of any manufacturer, importer, agent or dealer. Any sample so taken shall be put in a suitable vessel, and a label signed by the director or his deputy shall be placed on or within the vessel, stating the name or brand of the feed stuff or material sampled, the guaranty, the name of the manufacturer, importer or dealer, the name of the person, firm or corporation from whose stock the sample was taken, and the date and place of taking: provided, however, that whenever a request to that effect is made the sample shall be taken in duplicate and carefully sealed in the presence of the person or persons in interest, or their representative, in which case one of the said duplicate samples shall be signed and retained by the persons or persons whose stock was sampled. Any person who shall obstruct the director or his deputy while in the discharge of his duty under this act shall be deemed guilty of a misdemeanour, and upon conviction thereof shall be fined not less than twenty-five dollars nor more than one hundred dollars for each offence. The aforesaid director shall cause at least one analysis of each feed stuff collected as herein provided, to be made annually. Said analysis may include determinations of crude protein, of crude fat, and of such other ingredients as it is deemed advisable at any time to determine. Said director shall cause the results of the analysis of the sample to be published from time to time in station bulletins, special circulars, or elsewhere, together with such additional information concerning the character, composition and use thereof as circumstances may require.

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ADULTERATION OF WHOLE OR GROUND GRAIN OR STANDARD BY-PRODUCTS ; PENALTY.

Section 6. Any person who shall adulterate any whole or ground grain with milling or manufacturing offals, or with any foreign substance whatever, or adulterate any bran or middlings, or mixtures of wheat bran or wheat middlings known in the trade as 'mixed feed' or any other standard by-product made from the several grains or seeds with any foreign substance whatever, for the purpose of sale, unless the true composition, mixture or adulteration thereof is plainly marked or indicated upon the package containing the same or in which it is offered for sale ; and any person who knowingly sells or offers for sale any whole or ground grain, bran or middlings, or mixture of wheat bran and wheat middlings known in the trade as 'mixed feed,' or other standard by-product, which have been so adulterated, unless the true composition, mixture or adulteration is plainly marked or indicated upon the package containing the same or in which it is offered for sale, shall on conviction be fined not less than twenty-five dollars or more than one hundred dollars for each offence, and such fines shall be paid into the treasury of the Commonwealth.

DIRECTOR TO PROSECUTE VIOLATORS OF ACT.

Section 7. The director of the Hatch experiment station upon ascertaining any violations of this Act for the first time shall forthwith notify the manufacturers or importers in writing, giving them not less than thirty days thereafter in which to comply with the requirements of this Act. In case of second or subsequent violations by the same person or persons, or in case after a lapse of thirty days the requirements of this Act remain uncomplished with, it shall be the duty of the director of the said station to prosecute the person or persons violating any provision of this Act, and for this purpose the director may, if necessary, employ experts, and may further designate some person connected with the said station, or some other suitable person, to make complaints on its behalf ; and in making complaints for violations of this Act the persons so designated shall not be required to enter into any recognizance or to give security for the payment of costs ; provided, however, that there shall be no prosecution in relation to the quality of any unadulterated commercial feed stuff if the same shall be found to be substantially equivalent to the statement of analysis made by the manufacturers or importers.

Section 8. This Act shall not affect persons manufacturing, importing or purchasing feed stuffs for their own use and not to sell in this state.

Section 9. The term 'importer' for all the purposes of this Act, shall be taken to include all who procure or sell concentrated commercial feed stuffs.

Section 10. To defray the expenses of making the analyses and of carrying out the regulations provided for or made by under this Act the sum of three thousand dollars shall be allowed for the present year from the treasury of the Commonwealth, payable in semi-annual payments.

Section 11. Section twenty and so much of any other section of chapter fifty-seven of the Revised Laws as is inconsistent with this Act are hereby repealed.

Section 12. This Act shall take effect on the first day of July in the year nineteen hundred and three. (Approved March 2, 1903.)

TABLE I.—INSPECTION OF 127 SAMPLES

Date of Collection.	Nature of Sample.	Number of Sample.	Name and Address of Vendor.	COST.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Quantity.	Value.		
1905.			District of Nova Scotia—R. J. Waugh, Inspector.		Cts.		
Dec.	8 Bran.....	27117	T. McKay, wholesale dealer, Truro, N.S.	3 jars.	...	Ogilvie Flour Mills Co., Montreal.	Put up in 100 lb. bags and labelled Ogilvie's bran.
"	8 Cattle Feed.....	27118	W. C. Sumner, Truro, N.S.	3 "	....	W. C. Sumner, Truro	Put up in 100 lb. bags and labelled cattle feed.
"	11 Bran ...	27120	J. B. Shaffner & Co., Halifax, N. S., wholesale dealers.	3 "	....	Ogilvie Flour Mills Co., Montreal.	Put up in 100 lb. bags and labelled Ogilvie's bran.
"	11 Corn and Oat Feed	27121	" " ...	3 "	...	American Cereal Co., Peterborough, Ont.	Sold as corn and oat, Victor Brand, put up in 100 lb. bags.
"	12 Chop Feed.....	27124	A. Gunn & Co., Halifax, N.S.	3 "	05	A. Gunn & Co., Halifax, N.S.	Sold as O. & B. brand and put up in 100 lb. bags.
"	12 Bran....	27125	" " ...	3 "	05	Western Canada Milling Co., Goderich, Ont.	Put up in bags; imported by vendors.
"	12 Middlugs.....	27126	E. J. Fenton, Halifax, N.S.	3 "	....	Brant Milling Co., Brant, Ont.	Imported by vendor who is a retail dealer. Put up in bags.
"	12 Chop Feed.....	27127	" " ...	3 "	....	J. A. Calder, Dartmouth, N.S.	Put up in bags, not branded, sold retail.
"	12 Chop Feed.....	27128	J. A. Calder, Dartmouth, N.S.	3 "	....	" " ...	Sample taken at factory, no brand.
			District of New Brunswick—J. C. Ferguson, Inspector.				
Nov.	30 Bran,	24118	Chas. H. Peters Sons, Ward st., and Peters wharf, St. John, N.B., wholesalers.	3 1 kgs.	20	From Ogilvie's Mills, Montreal.	Manitoba wheat.
"	30 Chop	24119	" " ...	3 "	20	From Flavelle Milling Co., Lindsay, Ont.	P. chop. Corn and oats, half-and-half.
"	30 Oil Cake Meal...	24120	" " ...	3 "	20	Imported from United States; bought from brokers.	Vendors state no oil cake sold here. Cake ground, sold as oil cake meal.
Dec.	7 Cracked Corn and Oats, mixed	24129	Maritime Corn Meal Mills, Erin st., St. John, N.B., C. W. Stewart, proprietor.	3 "	...	C. W. Stewart, proprietor.	Food for cows and horses taken from bin in mills.

SESSIONAL PAPER No. 14
OF FEEDING STUFFS.

Serial Number.	Observed under the Microscope by A. Lemoine.	RESULTS OF ANALYSIS.										Name of Analyst.	Number of Sample.
		Total proteids(N x 6.25)	Moisture.	Petrolie ether extract = fat.	Alcohol extract after petrolie ether.	Water extract after alcohol.	Crude fibre.	Total ash.	Starch, approxima- tively.	Acid insoluble ash.	Proteids in alcohol extract.		
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
1	Mostly wheat bran....	11.18	10.96	2.20	7.00	4.88	9.60	3.92	50.26	.....	.....	A. Valin . . .	27117
2	Wheat, maize and oat starch.	8.37	12.84	2.20	3.92	4.08	8.85	2.38	57.36	.....	.....	" . . . . .	27118
3	Wheat bran.....	13.37	10.40	2.92	6.44	4.56	9.40	5.28	47.63	.....	.....	" . . .	27120
4	Corn and oat starch and a few granules of wheat.	7.19	9.12	2.24	None.	7.72	12.70	2.64	58.39	.....	.....	" . . . .	27121
5	Maize, wheat and oats.	8.31	12.00	1.88	3.92	4.20	5.50	1.80	62.39	.....	.....	" . . . . .	27124
6	Mostly wheat bran....	11.12	11.72	2.20	7.68	3.84	15.50	6.10	41.84	.....	.....	" . . . . .	27125
7	" "	12.68	11.80	3.08	5.20	8.72	8.60	4.44	45.48	.....	.....	" . . . . .	27126
8	Wheat maize and a little oat starch.	10.50	12.28	1.81	5.48	4.08	8.70	2.84	54.28	....	.....	" . . . .	27127
9	Mostly wheat starch...	10.62	12.32	2.48	6.16	4.16	7.50	3.28	53.48	.....	.....	" . . .	27128
10	Wheat starch.	13.10	9.00	2.08	6.76	6.84	8.00	5.56	48.66	.....	.....	A. Lemoine...	24118
11	Wheat, oat and maize starch.	14.90	9.45	2.60	4.52	6.56	4.05	2.56	55.36	.....	.....	" . . .	24119
12	Linseed tissues and some wheat granules.	34.40	8.44	1.24	7.68	16.00	8.60	5.68	17.96	.....	.....	" . . .	24120
13	Oat maize and wheat starch.	10.93	9.40	2.92	4.24	2.84	5.70	2.12	61.85	.....	.....	" . . .	24120

TABLE I.—INSPECTION OF 127 SAMPLES

Date of Collection.	Nature of Sample.	Number of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Quantity.	Value.		
1905.			District of New Brunswick—Con.		Cts.		
Dec. 7	Cracked Oats and Corn, mixed.	24130	Latour Mills, St. John Milling Co., Rodney wharf, west end, St. John, N.B., W. H. Fowler, manager.	3 pkgs	10	Latour Mills, St. John Milling Co., Rodney wharf, St. John, N.B., west side Carleton, W. H. Fowler, man'g'r.	Generally for horses or working oxen in the lumber woods.
" 5	Middlings	24127	William Dunlop & Son, 12 Sydney st., St. John, N.B.	3 "	10	Needham S. Springer, Mill st., St. John, N.B.	Bag marked XLK.
" 5	Cattle Feed	24128	Ira B. Kierstead, 153-161 Marsh Road, east, St. John, N.B.	3 "	10	W. Frank Hathenay Co., Ltd., South wharf, St. John, N.B.	Brand, 'Banner Cattle Feed,' in center of bag imprint 'Bulls Head.'
" 12	Bran, wheat	24133	The Sussex Mercantile Co., Ltd., Main st., Sussex, N.B.	3 "	10	The Flavelle Milling Co., Lindsay, Ont.	Sample taken from 100 lb. bag in warehouse.
" 13	Cattle Feed	24134	The Charles Fawcett, Lower Lute st., Moncton, N.B.	3 "	10	Moncton Corn Meal and Feed Mills, Moncton, N. B., Chas. Fawcett, Mfg. Co.	Brand 'Fawcett's Golden Star Feed,' from bin in mills.
			District of Prince Edward Island—T. Moore, Inspector.				
Dec. 4	Oil Cake Meal	28235	J. E. Auld & Co., Charlottetown.	1½ lbs.	....	Canada Linseed Oil Mills, Montreal.	
" 4	Chop	28236	J. E. Auld & Co., Charlottetown.	1½ "	...	G. Carler, Sons & Co., Ltd., St. Mary's, Ont.	
" 4	"	28237	R. E. Mutch, Charlottetown.	1½ "	...	J. R. Elliott, Elliott's Mills, P. E. Island	
" 4	"	28238	L. P. Tanton, Charlottetown.	1½ "	03	Ogilvie Flour Mills, Montreal.	
" 5	Bran	28244	J. J. Hughes, Souris	3 "	....	Ogilvie, Montreal	
" 7	"	28252	W. J. Boswall, Charlottetown.	3 pkgs	...	John Campbell & Co., St. Thomas, Ont.	
" 7	"	28253	F. L. McNutt, Charlottetown.	3 "	...	Canadian Flour Mill Co., Ltd., Chatham, Ont.	
" 7	"	28254	A. Horn & Co., Charlottetown.	3 "	....	Goldie Milling Co., Ayer, Ont.	
" 7	Oil Cake Meal	28256	H. Edmunds & Co., Charlottetown.	...	03	McKinley Bros., Charlottetown.	
" 7	Chop	28257	H. Edmunds & Co., Charlottetown.	...	02	A. Gates, Gates Mills, Charlottetown, Royalty.	
" 7	Oil Cake Meal	28259	Sanderson & Co., Charlottetown.	....	03	Hudon, Hébert & Co., Montreal.	
" 7	"	28260	R. E. Mutch, Charlottetown.	....	....	G. Carter & Co., Ltd., St. Mary's, Ont.	
			District of Quebec—C. E. Roy, Inspector.				
Dec. 7	Oil Cake Meal	29064	J. Buchanan & Son, Lévis.	....	05	R. F. Cream & Co., Quebec.	

SESSIONAL PAPER No. 14

OF FEEDING STUFFS—*Continued.*

Serial Number.	Observed under the Microscope by A. Lemoine.	RESULTS OF ANALYSIS.										Name of Analyst.	Number of Sample.
		Total proteids(N x 6.25)	Moisture.	Petrolic ether extract = fat.	Alcohol extract after petrolic ether.	Water extract after alcohol.	Crude fibre.	Total ash.	Starch, approximately.	Acid insoluble ash.	Proteids in alcohol extract.		
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
14	Oat maize and wheat starch.	9.63	9.60	2.72	3.92	2.76	7.55	1.80	62.02	.....	.....	A. Lemoine...	24130
15	Wheat starch granules.	14.50	10.28	2.36	8.36	5.96	8.05	4.92	45.57	.....	.....	"	24127
16	Oat maize and wheat starch.	8.75	9.64	2.24	3.88	2.24	7.70	2.12	63.43	.....	.....	"	24128
17	Wheat bran.	15.31	10.20	2.40	6.96	3.92	12.50	4.58	44.13	.....	.....	A. Valin.....	24133
18	Wheat, oat and maize starch.	8.75	11.00	1.92	2.92	2.92	3.75	1.44	67.30	.....	.....	"	24134
19	Linseed tissue	31.25	7.56	7.68	8.36	11.36	8.30	4.90	20.59	.....	.....	Miss E. Davidson.	28235
20	Mostly wheat starch ; some oats.	5.87	8.16	1.04	2.64	2.56	10.80	3.42	65.51	.....	.....	"	28236
21	Mostly oats ; some wheat starch.	9.81	8.88	1.88	3.68	3.08	10.45	4.52	57.70	...	.....	"	28237
22	Mostly oat and maize starch.	8.25	8.64	2.08	4.00	2.44	5.75	2.04	66.80	...	.....	"	28238
23	Wheat bran.....	12.94	8.68	2.36	8.36	4.48	9.15	4.38	49.65	.....	.....	"	28244
24	"	12.12	9.12	1.72	7.16	4.16	11.50	6.04	48.18	.....	.....	"	28252
25	"	14.50	8.80	2.16	7.32	4.48	9.00	7.62	46.12	0.10	.....	"	28253
26	"	12.75	8.60	1.20	6.80	5.64	9.80	5.18	50.03	...	.....	"	28254
27	Linseed tissue	31.94	8.20	3.76	10.84	10.64	8.10	5.84	10.68	.....	.....	"	28256
28	Mostly oat starch.....	11.00	9.64	1.60	4.80	4.44	7.25	2.40	58.87	...	.....	"	28257
29	Linseed tissue	29.55	7.12	6.24	10.40	12.80	7.20	5.30	21.39	.....	.....	"	28259
30	"	25.88	3.52	8.52	14.48	6.12	3.85	5.90	31.73	...	.....	"	28260
31	Linseed tissue	28.87	7.80	7.28	9.48	5.64	11.00	5.00	24.93	.....	.....	A. Valin	29064

6-7 EDWARD VII., A. 1907

TABLE I.—INSPECTON OF 127 SAMPLES

Date of Collection.	Nature of Sample.	Number of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Quantity.	Value.		
1906.			<i>District of Quebec</i> <i>—J. J. Costigan,</i> <i>Acting Inspector.</i>		Cts.		
Jan. 15	Bran.	25411	Chas. G. Racicot, St. Antoine st., St. Hyacinthe.	3 lbs..	05	Ogilvie Milling Co..	
" 15	Shorts.....	25492	Chas. G. Racicot, St. Antoine st., St. Hyacinthe.	3 " ..	05	Scotts, Ottawa.....	
" 17	Moulée.....	25493	McDonald & Robb, Valleyfield.	3 " ..		Vendor.....	
" 17	Shorts.....	25494	McDonald & Robb, Valleyfield.	3 " ..		"	
" 17	Cornmeal Feed..	25495	McDonald & Robb, Valleyfield.	3 " ..		"	
" 17	Bran	25496	McDonald & Robb, Valleyfield.	3 " ..		"	
1905.			<i>District of St. Hyacinthe—J. C. Rouleau, Inspector.</i>				
Dec. 5	Oil Cake Meal...	24787	C. O. Smith, Sutton.	1½ lbs.		Not known.....	Old 'Process brand,' out of a 100 lb. bag.
" 5	"	24789	C. R. Clough & Co., Lennoxville.	1½ "		Ogilvie Milling Co., Montreal.	Out of a 100 lb. bag.
" 5	Kennedy's Cattle Feed	24790	Gendron Denault & Co., Sherbrooke.	1½ " ..	09	G. C. Briggs & Sons, Hamilton.	" ..
" 5	Oil Cake Meal...	24791	J. W. Paige, Coati-cook.	1½ " ..	03	Dom. Linseed Oil Co., Montreal.	" ..
" 5	"	24793	J. H. Percy & Son, Magog.	1½ " ..	04	Ogilvie Milling Co., Montreal.	" ..
" 5	"	24794	M. Steele & Co., Richmond.	1½ " ..		"	" ..
" 13	"	24795	Robinson & Tenny, Waterloo.	1½ " ..	05	Lake of the Woods Milling Co., Montreal.	" ..
" 13	"	24796	J.S. Maguire, Waterloo.	1½ " ..	03	Ogilvie Milling Co., Montreal.	" ..
" 13	"	24797	R. W. Bradford, Granby.	1½ " ..	03	Wm. Ewing & Co., Montreal.	" ..
			<i>District of Montreal</i> <i>J. J. Costigan, Inspector.</i>				
Nov. 30	Special Horse Feed	26860	A Guertin, 91 Inspector st., Montreal.	3 lbs.	10	Manufactured by vendor.	Taken from bulk.
Dec. 4	Bran	26863	Flour Mills Co., Little St. Antoine st., Montreal.	3 " ..	10	Ogilvie Milling Co..	" ..
" 4	Moulée.....	26864	" ..	3 " ..	10	Vendor... ..	" ..
" 4	Shorts	26865	" ..	3 " ..	10	Ogilvie Milling Co..	" ..

SESSIONAL PAPER No. 14

OF FEEDING STUFFS—Continued.

Serial Number.	Observed under the Microscope by A. Lemoine.	RESULTS OF ANALYSIS.										Name of Analyst.	Number of Sample.
		Total proteids(N x 6.25)	Moisture.	Petrolic ether extract = fat.	Alcohol extract after petrolic ether.	Water extract after alcohol.	Crude fibre.	Total ash.	Starch, approxima- tively.	Acid insoluble ash.	Proteids in alcohol extract.		
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
32	Wheat bran.....	15.75	8.28	4.52	9.16	4.44	9.30	6.14	42.41	.....	.....	Miss E. David- son.	25411
33	Mostly wheat..	17.94	8.96	5.60	10.00	2.64	8.95	4.60	43.31	.....	.....	" ..	25492
34	Wheat, oats and maize.	12.31	10.16	3.00	5.92	1.92	6.85	2.72	57.12	.....	.....	" ..	25493
35	Mostly wheat; a little oats.	16.19	8.92	5.44	11.12	3.36	6.95	5.54	43.48	.....	.....	" ..	25494
36	Mostly maize .. .....	.....	.....	.....	.....	.....	.....	1.60	.....	.....	.....	" ..	25495
37	Wheat bran	15.13	9.20	4.32	9.52	2.12	7.75	5.04	46.92	.....	.....	" ..	25496
38	Linseed tissues..	29.31	8.32	4.20	11.48	7.96	9.75	5.95	24.03	.....	.....	A. Lemoine..	24787
39	"	27.18	8.04	6.64	11.08	10.28	6.50	6.20	24.08	.....	.....	" ..	24789
40	Maize and wheat starch, linseed; other substances undeter- mined.	14.87	6.68	2.16	32.96	4.52	2.25	27.50	9.06	.....	.....	" ..	24790
41	Linseed tissue...	33.37	8.48	6.32	10.64	6.88	10.60	4.75	18.96	.....	.....	" ..	24791
42	"	31.50	8.08	2.32	10.80	9.08	7.06	5.85	25.31	.....	.....	" ..	24793
43	"	30.62	8.40	1.52	10.28	5.84	7.18	5.60	30.56	.....	.....	" ..	24794
44	"	30.62	7.88	2.72	11.56	7.52	6.00	5.00	28.70	.....	.....	" ..	24795
45	"	32.37	8.96	2.22	10.72	6.20	8.68	5.65	25.20	.....	.....	" ..	24796
46	"	27.12	9.20	5.52	10.96	8.92	7.50	5.30	25.48	.....	.....	J. G. A. Valin	24797
47	Oats, wheat and maize..	10.25	7.96	2.20	10.92	2.08	7.80	2.24	56.55	.....	.....	J. G. A. Valin	26860
48	Wheat bran	12.68	8.60	2.60	9.00	2.08	13.60	4.84	46.60	.....	.....	" ..	26863
49	Wheat and oat starch..	11.06	10.88	2.48	5.76	4.00	16.75	2.84	46.23	" ..	26864
50	"	14.00	8.32	3.40	10.28	4.92	10.70	3.28	45.10	" ..	26865

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TABLE I.—INSPECTION OF 127 SAMPLES

Date of Collection.	Nature of Sample.	Number of Sample.	Name and Address of Vendor.	COST.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Quantity.	Value.		
1905.			District of Montreal—Concluded.		Cts.		
Dec.	5 Shorts	26866	Michaud Bros. & Co., 270 Notre Dame, Montreal.	3 lbs.	06	Western Canada Milling Co.	
"	5 Bran	26867	" " "	3 "	06	Not known	
"	5 Cracked Corn	26871	Bruneau, Currie & Co., 14 Jouvill, Montreal.	3 "	06	McDonald & Robb, Valleyfield, P.Q.	
"	5 Crushed Oats	26872	" " "	3 "	06	" " "	
"	5 Shorts	26873	" " "	3 "	06	T. Bullick & Son, Crystal City.	
"	5 Corn Feed	26874	" " "	3 "	06	McDonald & Robb, Valleyfield, P.Q.	
"	5 Grain Feed	26875	Bruneau, Currie & Co., 14 Jouvill, Montreal.	3 "	06	McDonald & Robb, Valleyfield, Que.	
"	5 Moulée	26876	W. L. Hogg, 395 Notre Dame, Montreal.	"	05	Vendor	
"	5 Barley Meal	26877	" " "	3 "	05	" " "	
"	13 Gluten Meal	26882	James Scott & Co., 132 St. Antoine, Montreal.	3 "	06	Edwardsburg Starch Co.	
"	13 Oil Cake Meal	26883	" " "	3 "	06	Dominion Linseed Oil Co.	
"	13 Moulée	26884	" " "	3 "	06	Joseph Bishop & Son, Crysler, Ont.	
"	13 Cattle Feed, 'Banner Brand.'	26885	" " "	3 "	06	American Cereal Co., Peterboro.'	
			District of Ottawa—A. E. Sanderson, Inspector.				
Nov.	4 Bran	28449	Froom & Millar, 427 Bank st.	1 lbs.	02	Ogilvie's	
"	6 " " " " " " " "	28450	A. Blyth, 69 William st.	1 "	02	Dowd Milling Co.	
"	6 " " " " " " " "	28451	D. Martin, 169 Rideau st.	1 "	02	Ogilvie's	
"	4 Shorts	28452	Froom & Millar, 427 Bank st.	1 "	02	Wm. Scott & Co., Deschenes, Que.	
"	6 " " " " " " " "	28453	A. Blyth, 69 William st.	1 "	02	Dowd Milling Co.	
"	6 " " " " " " " "	28454	D. Martin, 169 Rideau st.	1 "	02	" " "	
"	6 Low Grade Flour	28455	" " "	1 "	03	H. McIlroy, Carp, Ont.	
"	4 Corn and Oat Meal	28456	Froom & Millar, 427 Bank st.	1 "	02	American Cereal Co., Peterboro'.	
"	4 Mixed Chop	28457	" " "	1 "	02	Dwyer, Hintonburg	
"	4 Horse and Cattle Feed.	28458	L. O. Joly, 481 Wellington st.	1 "	10	Sterling Manfg. Co., Montreal.	A purely vegetable condiment. Warranted.

SESSIONAL PAPER No. 14
OF FEEDING STUFFS—Continued.

Serial Number.	Observed under the Microscope by A. Lemoine.	RESULTS OF ANALYSIS.										Name of Analyst.	Number of Sample.
		Total proteids(N x 6.25)	Moisture.	Petrolie ether extract= fat.	Alcohol extract after petrolie ether.	Water extract after alcohol.	Crude fibre.	Total ash.	Starch, approxima- tively.	Acid insoluble ash.	Proteids in alcohol extract.		
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
51	Wheat and oat starch..	19.25	8.84	3.56	11.20	3.16	8.80	3.74	41.45	.....	.....	J. G. A. Valin.	26866
52	Wheat bran	12.06	8.48	2.28	8.12	9.72	11.65	4.14	43.55	.....	.....	"	26867
53	Maize starch	7.87	10.40	2.00	5.12	2.48	3.00	1.44	67.69	.....	.....	"	26871
54	Oat starch	11.06	6.80	4.48	5.44	3.20	10.65	4.26	54.11	.....	.....	"	26872
55	Wheat and a little oat starch.	14.87	7.48	4.12	8.60	12.32	9.35	3.44	39.82	.....	.....	"	26873
56	Maize starch	8.75	10.08	3.12	3.92	2.96	1.50	1.04	68.63	.....	.....	"	26874
57	Wheat and oats.....	12.25	8.20	2.60	4.80	10.72	9.00	2.20	50.23	.....	.....	"	26875
58	Wheat, maize and oat starch.	15.75	8.88	2.28	2.52	9.88	8.50	3.20	48.99	.....	.....	"	26876
59	Mostly wheat starch...	11.37	9.84	1.60	2.08	4.00	8.25	1.94	60.92	.....	.....	"	26877
60	Broken starch granules; apparently wheat....	33.68	7.04	1.80	23.40	0.88	5.50	1.10	26.60	.....	.....	"	26882
61	Linseed tissue.....	28.06	6.80	12.48	9.00	7.08	10.00	3.16	23.42	.....	.....	"	26883
62	Oat and wheat starch ..	11.81	8.60	1.72	6.48	5.40	9.50	3.04	53.45	.....	.....	"	26884
63	Oat, maize and a little wheat.	7.87	7.92	2.16	4.88	1.72	9.50	2.00	63.95	.....	.....	"	26885
64	Wheat bran; some oat starch granules.	11.00	11.32	1.28	5.96	7.68	12.30	5.46	45.00	.....	0.56	Miss E. David- son.	28449
65	" "	14.00	10.92	1.32	4.60	6.40	11.30	5.80	45.66	.....	0.87	"	28450
66	" "	13.56	11.44	1.48	5.60	6.40	12.25	6.10	43.17	.....	0.50	"	28451
67	Mostly wheat ; a little oats.	15.37	10.92	3.40	8.96	5.64	7.10	3.82	44.79	.....	0.93	"	28452
68	Mostly wheat ; a little oat starch.	14.56	11.36	3.32	9.28	4.40	6.65	4.06	46.43	.....	0.62	"	28453
69	" "	17.18	10.56	3.20	9.44	4.04	8.30	4.02	42.36	.....	0.75	"	28454
70	Wheat flour	13.62	10.92	1.56	4.08	4.20	1.00	1.64	62.98	.....	0.50	"	28455
71	Oats and maize starch..	15.37	9.60	1.52	3.32	3.04	10.25	3.22	53.68	.....	.....	"	28456
72	Maize, wheat and oat starch.	7.00	11.96	0.00	0.80	3.80	2.65	1.84	71.95	0.56	.....	"	28457
73	A little linseed ; wheat and oat starch ; char- coal	21.25	9.20	1.72	15.84	5.28	3.80	5.24	37.67	0.08	2.25	"	28458

6-7 EDWARD VII., A. 1907

TABLE I.—INSPECTION OF 127 SAMPLES

Date of Collection.	Nature of Sample.	Number of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Quantity.	Value.		
1905.			<i>District of Ottawa—</i> Concluded.		Cts.		
Nov. 6	Pratt's Horse and Cattle Feed.	28459	S. J. Major, York st., wholesale.	1 pkg.	49	Pratt Food Manfg. Co., Philadelphia.	.....
" 6	Provender.....	28460	A. Blyth, 69 William st.	1 lb.	02	G. L. Dickinson, Manotick.	.....
" 6	" 'Banner Brand.'	28461	D. Martin, 169 Rideau st.	1 "	02	American Cereal Co., Peterboro'.	.....
" 6	Provender, 'Victor Brand.'	28462	" " ..	1 "	02	" " ..	.....
" 4	Calf Meal.....	28463	Froom & Millar, 427 Bank st.	1 "	02	American Cereal Co., Peterborough.	.....
" 6	Bibbey's Calf Feed.	28464	D. Martin, 169 Rideau st.	1 "	04	Bibby & Son, Liverpool, Eng.	.....
" 4	Oil Cake Meal..	28465	Froom & Millar, 427 Bank st.	1 "	03	Body & Co .....	.....
" 6	Linseed Meal....	28466	D. Martin, 169 Rideau st.	1 "	05	J. A. Simmers, Toronto.	.....
" 6	Gluten Meal. ...	28467	A. Blyth, 69 William st.	1 "	02	St. Lawrence Starch Co., Port Credit.	.....
" 4	Cattle Feed.....	28468	Froom & Millar, 427 Bank st.	1 "	02	American Cereal Co., Peterborough.	.....
" 6	Bibby's Cream...	28469	A. Blyth, 69 William st.	1 "	05	Bibby, Liverpool, Eng.	.....
			<i>District of Kingston—</i> <i>J. Hogan, Inspector.</i>				
Nov. 22	Oil Cake Meal...	28535	W. P. Peters, Brock st., Kingston.	4½ lbs	75	Carnafac Stock Food Co., Winnipeg.	.....
" 22	"	28537	H. Skinner, Princess st., Kingston.	3 "	05	Dominion Linseed Oil Co., Toronto.	Wholesale
" 22	"	28539	D. Hutchison, Market st., Kingston.	3 "	05	Livingston, Baden..	.....
" 22	Bran.	28540	" " ..	2 "	05	Seaforth Milling Co.	.....
" 23	"	28541	Kingston Milling Co.	3 "	05	Kingston Milling Co.	.....
" 27	"	28544	Tilton Graham, Pitt st., Cornwall.	3 "	05	Lake of Woods Milling Co.	.....
" 27	Chop.	28545	" " ..	3 "	05	Black, Cornwall .....	.....
" 27	Bran.	28546	J. A. Gauthier, Pitt st., Cornwall.	3 "	05	Not known.....	.....
" 27	Chop.	28550	J. A. Farlinger, Morrisburg.	3 "	05	J. A. Farlinger, Morrisburg.	.....
" 27	Bran.	28552	Gibson, Morrisburg.	3 "	05	Gibson Co., Morrisburg.	.....
" 27	Chop.	28553	" " ..	3 "	05	" " ..	.....
" 29	"	28563	H. Brown & Son, Brockville.	3 "	05	Not known. ....	.....

SESSIONAL PAPER No. 14

OF FEEDING STUFFS—Continued.

Serial Number.	Observed under the Microscope by A. Lemoine.	RESULTS OF ANALYSIS.										Name of Analyst.	Number of Sample.
		Total proteids(N x 6.25)	Moisture.	Petrolie ether extract = fat.	Alcoholic extract after petrolie ether.	Water extract after alcohol.	Crude fibre.	Total ash.	Starch, a p p r o x i m a - tively.	Acid insoluble ash.	Proteids in alcohol extract.		
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
74	Oat, wheat and maize granules.	11.50	10.44	2.32	11.24	4.76	5.35	6.28	48.11	0.24	1.07	Miss E. Davidson.	28459
75	Mostly oat starch granules.	10.56	11.72	1.00	3.04	3.48	3.28	3.40	63.52	1.36	.....		28460
76	Oat, maize and wheat starch granules.	6.50	9.84	1.52	2.40	3.36	6.20	1.94	68.24	0.64	.....	"	28461
77	" " " "	7.25	9.40	1.20	3.08	3.24	11.00	2.84	61.99	.....	.....	"	28462
78	Linseed, maize, wheat and probably oat starch.	23.25	9.84	2.36	9.88	8.04	5.40	4.52	36.71	.....	.....	"	28463
79	Linseed, pea or bean starch and a little maize.	13.81	8.80	3.00	13.04	8.88	4.05	3.88	44.54	.....	.....	"	28464
80	Linseed tissue	30.06	8.24	0.44	7.28	16.72	9.70	5.42	22.14	.....	0.56	"	28465
81	" " " " " "	21.19	5.56	7.80	13.12	9.32	22.75	9.42	10.84	4.80	0.69	"	28466
82	Starch granules, mixed and broken up.	20.21	7.92	0.40	3.44	1.60	4.00	0.66	61.77	.....	.....	Miss S. E. Wright.	28467
83	Mostly maize starch; a little wheat.	8.31	10.44	2.60	3.32	2.40	7.40	2.50	63.03	.....	.....		28468
84	Wheat, maize and probably oat starch; linseed.	13.94	9.96	5.28	12.04	4.36	3.95	3.92	46.55	.....	.....	"	28469
85	Mostly wheat, some charcoal, salt crystals	11.56	7.32	1.84	21.60	2.92	7.50	11.68	35.58	0.50	.....	J. G. A. Valin	28535
86	Mostly linseed, other substances undetermined.	36.00	7.20	4.60	11.40	3.60	9.00	5.46	22.74	.....	.....		28537
87	Linseed meal, some starch, a little charcoal; rest undetermined.	25.06	8.00	5.40	10.00	6.60	12.50	5.40	27.04	.....	.....	"	28539
88	Wheat and oat starch.	11.81	8.36	2.72	7.00	3.88	14.00	4.04	48.19	.....	.....	"	28540
89	Mostly wheat bran	11.87	8.72	2.40	7.44	3.96	11.75	5.60	48.26	.....	.....	"	28541
90	" " " " " "	13.56	8.32	3.20	7.88	3.72	14.00	5.28	44.04	.....	.....	"	28544
91	Oat and wheat starch . .	10.62	8.92	2.12	3.40	3.44	9.50	2.10	59.90	.....	.....	"	28545
92	Mostly wheat bran	13.56	8.52	2.68	7.60	3.68	12.25	5.38	46.33	.....	.....	"	28546
93	Oat and wheat starch . .	10.50	9.32	1.52	5.92	2.48	12.50	3.00	54.76	.....	.....	"	28550
94	Mostly wheat bran	14.00	4.80	2.96	8.32	4.00	13.50	5.68	46.74	.....	.....	"	28552
95	Oat and wheat starch . .	10.93	9.80	0.60	4.60	4.88	6.25	2.00	60.94	"	28553
96	" " " " " "	11.93	8.76	1.72	4.48	3.12	12.50	5.10	52.39	"	28563

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TABLE I.—INSPECTION OF 127 SAMPLES

Date of Collection.	Nature of Sample.	Number of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Quantity.	Value.		
1905.			<i>District of London— T. Kidd, Inspector.</i>		Cts.		
Nov. 28	Bran.....	22434	Arther Patrick, Woodstock, wholesale.	$\frac{1}{2}$ lbs.	05	James Cullin, miller, Woodstock.	
" 28	Corn Chop.....	22435	Arthur Patrick, flour and feed merchant, Woodstock.	$\frac{1}{2}$ "	05	Arthur Patrick, Woodstock.	Corn chop made from Canadian corn.
" 29	Oil Cake Meal. .	22442	James Dunlop & Co., Hamilton.	1 "	05	St. Louis firm, Toledo, Ohio, U.S.	Called oil cake.
" 29	Chop Corn . . .	22443	" "	1 "	05	Miller and feed merchant, Hamilton.	Made by vendor, Dunlop & Co., Hamilton.
" 29	Bran.....	22444	" "	1 "	05	James Dunlop & Co.	Who makes same
" 29	Horse Feed.....	22445	" "	1 "	05	United Breeders Co., Syracuse, N.Y.	
" 29	Horse and Cattle Feed.	22446	" "	1 "	05	Robert Ralston & Co., Hamilton.	
" 30	" "	22447	Tetterington & Co., St. Catharines.	1 "	15	Beaver Manufacturing Co., Galt.	
" 30	Oil Cake	22448	Tetterington & Co., St. Catharines, manufacturers and dealers.	1 "	15	Dominion Oil Seed Co., Baden.	
" 30	Corn Chop	22449	Tetterington & Co., St. Catharines.	1 "	05	Tetterington & Co.	Who makes same in their mill.
" 30	Barley Chop. . .	22450	" "	1 "	05	" "	
" 30	Bran Chop . .	22451	Tetterington & Co., made by Whitley Shaw, St. Kitts.	1 "	05	Headley Shaw, manufacturer, St. Kitts.	Manitoba wheat.
Dec. 4	Chopped Oats..	22454	James Ford, merchant, Clinton.	1 "	05	James Ford, manufacturer, Clinton.	
" 4	Oil Cake Meal..	22455	Cook & Sons, merchants, Clinton.	1 "	05	Gorman & Eckart, London.	Wholesale dealers.
" 4	Bran	22456	James Norman Fair, miller, Clinton.	1 "	05	James Norman Fair, miller, Clinton, Ont.	Collected from a pile of bran on floor.
" 4	"	22457	Western Canada Flour Co., Goderich	1 "	05	Western Canada Flour Mills Co., Goderich.	Taken from a pile on floor.
" 5	Ground Flax Meal.	22458	W. E. Kerslake, feed merchant, Seaforth	1 "	10	W. E. Kerslake, Seaforth.	
			<i>District of Calgary— W. Fletcher, Inspector.</i>				
Dec. 15	Bran	28610	Calgary Milling Co., Calgary.	$\frac{3}{4}$ lbs.		Calgary Milling Co., Calgary.	
" 15	Oat Chop.....	28611	" "	$\frac{3}{4}$ "		" "	
" 15	Cattle Feed.....	28613	The Bole Drug Co., Calgary, wholesale	2 "	35	The Bole Drug Co., Winnipeg.	
" 18	Oil Cake Meal...	28615	Hull & Sharp, Calgary (jobbers).	$1\frac{1}{2}$ "		Ogilvie Milling Co., Winnipeg.	

SESSIONAL PAPER No. 14
OF FEEDING STUFFS—*Continued.*

Serial Number.	Observed under the Microscope by A. Lemoine.	RESULTS OF ANALYSIS.										Name of Analyst.	Number of Sample.
		Total proteids (N x 6.25)	Moisture.	Petrolic ether extract = fat.	Alcohol extract after petrolic ether.	Water extract after alcohol.	Crude fibre.	Total ash.	Starch, approxi- mately.	Acid insoluble ash.	Proteids in alcohol extract.		
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
97	Mostly wheat bran....	15.75	9.08	2.80	7.60	3.68	12.00	4.80	44.29	.....	.....	J. G. A. Valin	22434
98	Maize starch....	8.75	8.72	2.00	4.00	1.92	5.00	1.70	67.91	.....	.....	"	22435
99	Linseed tissue....	26.24	7.72	4.12	11.20	3.88	13.50	5.24	28.10	.....	.....	"	22442
100	Mostly maize, some wheat and oats.	13.12	12.92	2.48	6.48	1.92	4.50	1.86	56.72	.....	.....	"	22443
101	Mostly wheat bran....	13.12	9.16	1.84	8.68	2.92	12.50	5.44	46.34	.....	.....	"	22444
102	Linseed tissue, pea or bean starch, char- coal and salt crystals.	15.31	8.16	2.84	12.20	6.60	15.75	10.82	28.32	1.82	.....	"	22445
103	Linseed maize; a little wheat and charcoal.	12.37	8.40	2.00	16.83	8.36	7.80	8.60	35.59	0.20	.....	"	22446
104	Wheat, linseed, char- coal.	20.94	7.80	5.44	18.84	10.08	9.25	13.66	16.07	0.32	.....	Miss E. David- son.	22447
105	Linseed tissue....	30.19	8.32	5.48	9.96	12.04	12.10	5.84	16.06	.....	.....	"	22448
106	Mostly maize	10.06	9.68	2.32	3.96	2.72	3.55	1.52	66.19	.....	.....	"	22449
107	Wheat or barley	9.19	9.36	1.40	2.44	4.12	6.60	2.42	64.47	.....	.....	"	22450
108	Wheat bran....	15.25	9.28	3.16	8.00	5.04	12.65	6.24	40.38	.....	.....	"	22451
109	Mostly oats....	11.25	9.00	2.48	5.88	4.24	10.78	2.18	54.19	.....	.....	"	22454
110	Linseed tissue.....	27.31	9.36	4.92	10.16	11.84	10.35	7.02	19.04	0.92	.....	"	22455
111	Wheat bran....	13.56	9.44	2.04	6.60	5.40	16.00	5.04	47.92	.....	.....	"	22456
112	Wheat bran....	14.63	9.08	2.68	7.36	4.64	9.90	6.12	45.59	.....	.....	"	22457
113	Linseed tissue.....	22.56	5.32	4.44	15.44	6.36	10.60	4.00	31.28	.....	.....	"	22458
114	Wheat bran....	13.63	10.32	1.60	8.72	4.44	10.75	6.06	44.48	.....	.....	Miss E. David- son.	28610
115	Mostly oats.....	11.43	11.36	1.88	6.28	4.72	6.95	4.82	52.56	.....	.....	"	28611
116	Linseed tissue, some wheat and charcoal.	14.06	10.08	0.96	22.40	15.00	10.20	23.68	3.62	0.62	"	28613
117	Linseed tissue	31.06	8.56	8.08	7.52	14.68	10.40	7.12	12.58	0.22	"	28615

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TABLE I.—INSPECTION OF 127 SAMPLES

Date of Collection.	Nature of Sample.	Number of Sample.	Name and Address of Vendor.	COST.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Quantity.	Value.		
1905.			<i>District of British Columbia—E. B. Parkinson, Inspector.</i>		Cts.		
Dec. 9	Bran	28041	Geo. S. Pearson, Nanaimo, wholesale and retail dealers.	2½ lbs.	05	Lake of the Woods Milling Co.	
" 9	Shorts	28043	A. R. Johnston & Co., Nanaimo.	3 "	10	Hammona Milling Co., Seattle, Wash., U.S.A.	
" 11	Standard Chop..	28044	Brackman & Kerr, millers, wholesale and retail dealers, Victoria.	5 "	....	Brackman & Kerr, Victoria.	B. & K. Milling Co. Ground chop. Sold at \$25 per ton.
" 11	Dairy Chop.....	28045	" " ..	5 "	....	" "	Sold at \$15 per ton, 'Dairy Chop.'
" 11	Barley Chop	28046	Sylvester Feed Co., wholesale and retail, Victoria.	6 "	..	Sylvester Feed Co., Victoria.	Sold at \$27 per ton.
" 11	Creamery Chop..	28047	" " ..	6 "	..	" "	Sold at \$17 per ton.
" 12	Cocoa-nut Oil Cake.	28050	Brackman & Kerr, Vancouver.	3 "	10	Lever Bros., Sydney, Australia.	Sunlight cocoa-nut oil cake, mfg. by Lever Bros., Sydney, Australia.
" 12	Chop.....	28051	Fred. Allen, whole sale and retail merchant, Vancouver.	6 "	10	Fred Allen, Vancouver.	
" 13	Bran	28054	Crowder & Penzer, wholesale and retail feed dealers, Vancouver.	3 "	05	Enderby Flour Milling Co., Enderby, B.C.	
" 13	Oil Cake Meal. . .	28056	S. W. Keith, wholesale and retail feed merchant, Vancouver.	3 "	05	Canada Paint Co., Winnipeg.	Winnipeg Linseed Oil Mills. Oil cake meal.

SESSIONAL PAPER No. 14

OF FEEDING STUFFS—*Concluded.*

Serial Number.	Observed under the Microscope by A. Lemoine.	RESULTS OF ANALYSIS.										Name of Analyst.	Number of Sample.
		Total proteids(N x 6.25)	Moisture.	Petrolie ether extract = fat.	Alcohol extract after petrolie ether.	Water extract after alcohol.	Crude fibre.	Total ash.	Starch, approximately.	Acid insoluble ash.	Proteids in alcohol extract.		
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
118	Mostly wheat bran...	12.25	9.92	2.12	7.16	5.52	10.50	5.50	47.03	.....	.....	Miss E. Davidson.	28041
119	Wheat and oats.....	15.75	9.24	2.76	10.60	4.56	8.25	5.06	43.78	.....	.....	" ..	28043
120	Wheat, oats and a little maize.	10.31	9.48	2.52	6.16	3.12	8.25	3.80	56.36	.....	.....	" ..	28044
121	Maize, oat and wheat..	8.13	9.12	1.20	5.08	4.24	14.60	4.42	53.21	.....	.....	" ..	28045
122	Maize, oat and wheat or barley.	8.69	11.44	2.04	6.32	1.96	5.85	4.22	59.48	.....	.....	" ..	28046
123	Oat, maize wheat and another vegetable substance undetermined.	11.50	12.00	2.40	13.16	2.92	3.35	8.24	46.43	.....	.....	" ..	28047
124	Starch granules resembling oats; other undetermined tissues.	10.93	11.56	13.40	9.80	5.92	13.05	5.12	30.22	.....	.....	A. Lemoine...	28050
125	Wheat and oat starch and a little maize.	11.80	11.32	2.40	5.16	7.08	7.00	2.12	53.12	.....	.....	" ..	28051
126	Mostly wheat bran ...	17.06	10.88	4.40	11.60	4.84	6.80	4.36	40.06	.....	.....	" ..	28054
127	Linseed tissue.....	30.13	8.88	6.52	7.12	12.12	10.25	4.28	20.70	Miss E. Davidson.	28056

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TABLE II.—INSPECTION OF 40

Date of Collection.	Nature of Sample.	Numbhr of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Quantity.	Value.		
1905.			<i>District of Nova Scotia—R. J. Waugh, Inspector.</i>		Cts.		
Dec. 6	Stock Food	27113	S. P. Goudy. Yarmouth, N.S.	1 pkg.	25	Columbia Stock Food Co., Windsor, Ont.	Sample drawn from 21-lb. pkg. Vendor is a general dealer.
" 7	" "	27114	W. M. Carruthers, Kentville, N.S.	1 "	15	International Stock Food Co., Toronto, Ont.	Drawn from 21-lb pkg. Imported by vendor. General dealer.
" 12	Feed Syrup	27123	Acadia Sugar Refining Co., Halifax, N.S.	3 jars.	....	Acadia Refining Co., Halifax.	Sample drawn from cask.
			<i>District of New Brunswick—J. C. Ferguson, Inspector.</i>				
Dec. 1	Cattle Food, Stock.	24121	H. S. Wallace. 11-12 South wharf, St. John, N.B., manfg. agents, &c.	3 pkgs	75	International Stock Food Co., Minneapolis, Min., U. S. A.	Branch at Toronto. Medicat- ed food. See package for full statement.
" 2	Cattle Spice.	24123	P. Nase & Son, Ltd., 2-14 north end Main st., St. John, N.B., wholesalers.	3 "	75	Maritime Spice and Coffee Co., Ltd., St. John, N.B.	'Acun Brand.' Prepared from formula furnished by United States Veterinary. 'Acun Cattle Spice.'
" 13	Stock Food or Cattle Spice...	24136	Fairweather Bros., Main st., Moncton, N.B., druggists.	3 "	1 50	The Beaver Manfg. Co., Galt, Ont.	'Herbageum.' Trade Mark, registered.
			<i>District of Prince Edward Island—T. Moore, Inspector.</i>				
Dec. 5	Herb Food	28243	Sterns Bros., Souris.	2 lbs.	25	National Manfg. Co., Truro, N.S.	
			<i>District of Quebec—C. E. Roy, Inspector.</i>				
Nov. 29	Stock Food.	29055	P. T. Legare, Que.		50	International Stock Food Co., Minneapolis, Min.	
" 30	" "	29056	Dr. Ed. Morin Medicine Co., Que.	1 bag.	35	Vendors.	
Dec. 5	Stock Food ...	29061	L.N. Jourdain, Three Rivers.	1 bag.	45	The Beaver Manfg. Co., Galt, Ont.	
" 13	"	29066	A.E. Vallerand, Que.	....	50	The Morin Medicine Co., Quebec.	
" 16	"	29068	A. A. Cantin, Que...	....	50	International Stock Food Co., Minn., U.S.A.	

SESSIONAL PAPER No. 14
SAMPLES STOCK FOODS, &c.

Serial Number.	Observed under the Microscope by A. Lemoine.	RESULTS OF ANALYSIS.										Name of Analyst.	Number of Sample.
		Total proteids(N x 6.25)	Moisture.	Petrolic ether extract = fat.	Alcohol extract after petrolie ether.	Water extract after alcohol.	Crude fibre.	Total ash.	Water insoluble ash.	Acid insoluble ash.	Sodium chloride.		
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
1	Mostly wheat, some oats and charcoal.	12.68	8.08	2.52	14.68	12.84	10.20	16.88	.....	.....	.....	A. Valin.	27113
2	Mostly wheat and char- coal.	10.94	10.48	1.24	22.76	9.52	9.35	17.24	.....	.....	.....	" .....	27114
3	.....	None.	27.20	1.40	65.92	5.08	.....	4.58	.....	.....	.....	" .....	27123
4	Wheat, starch and prob- ably oats ; charcoal and linseed.	9.62	8.36	1.20	19.44	5.16	9.25	15.60	.....	.....	.....	A. Valin ...	24121
5	Fennegreek. linseed tissue, a little wheat.	18.37	8.00	2.60	22.40	9.60	8.40	6.26	.....	.....	.....	" .....	24123
6	Linseed, wheat and charcoal.	18.93	8.32	2.48	19.04	4.72	7.65	5.74	.....	.....	.....	" .....	24136
7	Mostly wheat, some charcoal, salt crystals.	8.88	9.32	0.00	7.52	13.44	5.15	29.98	.....	3.86	.....	Miss E. David- son.	28243
8	Mostly wheat, some charcoal.	11.56	7.80	1.32	24.48	4.00	9.50	15.68	.....	.....	.....	A. Valin.....	29055
9	Oats, wheat, maize starch, linseed meal, fennegreek ; other tiss- ues undetermined.	24.50	6.92	8.04	16.56	7.28	5.95	7.20	.....	.....	.....	A. Lemoine...	29056
10	Linseed, wheat, char- coal, salt crystals.	20.56	7.52	3.76	21.68	5.24	11.50	15.40	.....	.....	.....	A. Valin	29061
11	Linseed, a little wheat and charcoal.	24.31	8.04	3.64	9.84	14.96	10.55	7.08	...	0.14	Miss E. David- son.	29066
12	Linseed, wheat, char- coal.	10.94	7.64	2.76	21.68	6.12	9.85	17.78	...	0.32	...	" ..	29068

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TABLE II.—INSPECTION OF 40

Date of Collection.	Nature of Sample.	Number of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Quantity.	Value.		
1905.			<i>District of St. Hyacinthe—J. C. Rouleau, Inspector.</i>		Cts.		
Dec. 5	Herbageum Stock Food.	24788	C. O. Smith, Sutton.	1½ lbs.	15	The Beaver Manfg. Co., Galt, Ont.	Out of a 4-lb. paper bag.
			<i>District of Montreal—J. J. Costigan, Inspector.</i>				
Nov. 28	International Stock Food.	26856	Dupuis & Ferguson, 38 Jacques Cartier Square, Montreal.	3 pkgs	75	International Stock Food Co., Minneapolis, Minn.	.....
" 30	Stock Food.....	26859	A. Guertin, 91 Inspector St., Montreal.	3 lbs.	10	Taken from 17-lb. bag. Put up by vendor.	Labelled Canadian vegetable concentrated.
" 30	Cattle Spice.....	26861	" " "	3 "	10	Manfg. by Blatchford's, Philadelphia	Taken from bulk
			<i>District of Ottawa—A. E. Sanderson, Inspector.</i>				
Nov. 6	Stock Food.....	28470	A. Blyth, 69 William St., Ottawa.	1 pkg.	25	International Stock Food Co., Minneapolis, Minn.	Guaranteed.
" 6	Dr. Hess Stock Food.	28471	" " "	1 lb.	30	Dr. Hess & Clark, Ashland, U.S.A.	.....
" 6	Myer's Horse and Cattle Spice.	28481	H. N. Bate & Sons, wholesale, Ottawa.	1 pkg.	19	Myer's, Niagara Falls, N.Y.	.....
Dec. 5	Herbageum Cattle Food.	29201	R. Burris, Perth, Ont.	5 lbs.	50	Beaver Manfg. Co., Galt, Ont.	.....
			<i>District of Kingston—J. Hogan, Inspector.</i>				
Nov. 22	Cattle Spice	28536	W. P. Peters, Brock st., Kingston.	3 lbs.	09	Not known.....	.....
" 27	Stock Spice.....	28551	J. A. Farlinger, Morrisburg.	3 "	25	J. A. Farlinger, Morrisburg.	.....
" 28	Stock Food.....	28557	S. E. Mills, Main st., Prescott.	9 "	75	Columbia Stock Food Co., Windsor.	.....
" 28	Cattle Spice.....	28561	A. E. Cameron, Brockville.	4 "	50	Baner Manfg. Co.....	.....
" 30	Stock Food.	28571	R. McBroon, Gananoque.	3 "	50	International Stock Food Co., Minneapolis.	.....
.....	Scottish Stock Food.	91695	A. A. Leslie, Aylmer, Ont.	.....	.....	.....	.....
			<i>District of London—T. Kidd, Inspector.</i>				
Nov. 28	Stock Food.	22433	Arth. Patrick, Woodstock, wholesale.	2 bots.	10	Stock Food firm, Toronto.	Made in Minneapolis.
" 30	Stock Food for Cattle.	22452	J. K. Black, Clydesdale, Stock Food agent.	½ lb.	05	Clydesdale Stock Food Co., Toronto.	.....

SESSIONAL PAPER No. 14

SAMPLES OF STOCK FOODS, &c.—Continued.

RESULTS OF ANALYSIS.													
Serial Number.	Observed under the Microscope by A. Lemoine.	Total proteids(N x 6.25)	Moisture.	Petrolie ether extract = fat.	Alcohol extract after petrolie ether.	Water extract after alcohol.	Crude fibre.	Total ash.	Water insoluble ash.	Acid insoluble ash.	Sodium chloride.	Name of Analyst.	Number of Sample.
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
13	Linseed, wheat, charcoal.	20.25	7.56	4.68	19.32	9.32	9.35	13.56	.....	0.24	.....	Miss E. Davidson.	24788
14	Mostly wheat, a little oats and charcoal.	11.37	10.24	2.56	23.60	2.60	7.50	15.26	.....	.....	.....	J. G. A. Valin	26856
15	Fenngreek, a little linseed and maize, mostly wheat.	23.31	6.00	10.52	28.20	8.28	6.20	3.56	.....	.....	.....	"	26859
16	Fenngreek, oat, wheat and maize.	None.	7.44	4.64	16.08	5.08	10.35	4.40	.....	.....	.....	"	26861
17	Wheat and oat starch, charcoal, other vegetable substances undetermined.	13.12	8.04	1.28	21.92	4.40	7.90	19.64	.....	.....	.....	Miss S. E. Wright.	28470
18	Wheat and oat starch, charcoal.	14.87	9.60	2.00	19.96	0.88	5.00	17.98	.....	.....	.....	"	28471
19	Salt crystals and quite a variety of herbs and seeds.	12.31	5.84	1.32	33.60	7.40	13.25	33.20	.....	1.36	.....	Miss E. Davidson.	28481
20	Fenngreek, linseed tissue, salt crystals, charcoal; other vegetable tissues undetermined.	19.50	4.96	6.52	19.36	9.40	8.15	18.40	3.90	0.54	13.50	A. McGill...	29201
21	Mostly linseed	33.69	12.24	4.80	9.20	12.68	10.20	6.58	...	0.38	...	Miss E. Davidson.	28536
22	Maize, wheat, linseed, or oat starch.	41.12	7.40	1.88	11.08	9.48	4.35	3.34	.....	.....	.....	"	28551
23	Wheat starch granules bran and charcoal.	10.94	6.60	1.52	15.12	12.64	5.95	17.10	.....	*5.48	6.80	"	28557
24	Linseed tissue, wheat starch and charcoal.	21.31	6.44	4.40	21.08	13.48	6.45	14.90	.....	...	9.10	"	28561
25	Linseed tissue, wheat starch and a little oats.	17.69	6.64	1.36	21.44	5.32	9.40	16.10	2.90	.....	13.00	"	28571
	Salt crystals, some linseed meal tissue; other vegetable substances undetermined.	17.06	5.52	14.20	10.60	3.16	5.05	3.42	.....	.....	.....	"	.....
26	Wheat starch, bran and charcoal.	11.19	7.16	2.04	23.32	1.88	8.80	18.10	3.60	....	14.00	Miss E. Davidson.	22433
27	Linseed tissue, wheat starch.	20.37	7.08	2.32	21.56	10.68	7.75	16.60	6.00	...	8.50	"	22452

* Per cent sodium sulphate.

TABLE II.—INSPECTION OF 40 SAMPLES

Date of Collection.	Nature of Sample.	Number of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Quantity.	Value.		
1905.			<i>District of London</i> —Concluded.		Cts.		
Dec. 1	Myer's Spice and Cattle Food.	22453	E. Pitts, Paris.....	1 lb.	10	Myer's Royal Spice Co., Niagara Falls, Ont.	.....
			<i>District of Manitoba—</i> <i>W. M. Conklin,</i> <i>Inspector.</i>				
Dec. 7	Stock Food.	25704	A. E. McKenzie & Co., Brandon.	4 lbs.	50	The Beaver Man'f'g. Co., Galt, Ont.	.....
" 7	Cattle Spice.....	25705	Charles S. Weicum, Brandon.	2 "	35	Magic Spice Co., Montreal.	.....
" 7	Stock Food. .	25706	Rea & Co., Brandon.	2 "	35	Arabian Medicine Co., Carberry, Man.	.....
" 8	"	25708	G. C. Hall, Portage la Prairie.	2 "	25	The Clydesdale Stock Food Co., Toronto.	.....
" 8	"	25709	Swain & Co., Portage la Prairie.	2 "	20	Robt. Ralston & Co., Hamilton.	.....
" 9	"	25710	W. G. Douglas, Winnipeg.	1 "	10	Carnafac Stock Food Co., Winnipeg.	W. G. Douglas manuf'r.
" 9	"	25711	Ross & Ross, Winnipeg.	1 "	....	International Stock Food Co., Toronto and Minneapolis.	.....
Dec. 11	Stock Food.....	25712	Jobin, Marrin Co., Winnipeg.	2 "	25	German Stock Food Co., Minneapolis, U.S.A.	.....
" 11	"	25714	Woolsey Bros., St. Boniface.	2 "	25	Columbia Stock Food Co., Windsor, Ont.	.....
" 13	"	25715	Moody & Son, Selkirk	1½ "	15	Dr. Hess & Clark, Ashland, Ohio, U.S.A.	.....
			<i>District of Calgary—</i> <i>W. Fletcher, In-</i> <i>spector.</i>				
Dec. 15	Cattle Spice.	28614	James Turner & Co., Calgary Branch, wholesalers.	3 pkgs	60	Myers, Niagara Falls, Ont.	.....
			<i>District of British Columbia—</i> <i>E. B. Parkinson, Inspec-</i> <i>tor.</i>				
Dec. 9	International Stock Food.	28042	Geo. Bevilockway, Nanaimo, wholesale and retail dealer.	3 pkgs	75	International Stock Food Co., Minneapolis, U.S., and Toronto, Can.	.....
" 11	Stock Food..	28048	Sylvester Feed Co., Victoria.	1 "	50	Sylvester Feed Co., Victoria.	.....
" 12	Cattle Spice, Myer's.	28049	Brackman & Kerr, Vancouver.	3 "	75	Myer's Royal Spice Co., Niagara Falls, N.Y.

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OF STOCK FOODS, &c.—*Concluded.*

Serial Number.	Observed under the Microscope by A. Lemoine.	RESULTS OF ANALYSIS.										Name of Analyst.	Number of Sample.
		Total proteids(N x 6.25)	Moisture.	Petrolic ether extract = fat.	Alcohol extract after petrolic ether.	Water extract after alcohol.	Crude fibre.	Total ash.	Water insoluble ash.	Acid insoluble ash.	Sodium chloride.		
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
28	Fenugreek, seeds, pieces of stems, chaff, &c.	11.38	6.12	1.92	35.04	4.96	9.25	29.70	6.00	.....	22.30	Miss E. David- son.	22453
29	Wheat starch, salt crys- tals, linseed tissue.	20.56	7.08	5.60	4.68	18.80	8.00	13.80	3.60	... ..	9.2	Miss E. David- son.	25704
30	.....	15.75	9.04	10.64	14.68	17.04	6.70	10.04	.....	0.70	.....	" ..	25705
31	Salt crystals, wheat starch, charcoal.	10.25	7.24	5.28	18.28	14.52	3.35	25.90	3.50	....	21.10	" ..	25706
32	Linseed tissue, wheat starch, charcoal.	18.38	7.76	2.68	14.24	11.24	9.30	14.40	5.00	....	7.30	" ..	25708
33	Linseed tissue, salt crys- tals, wheat starch.	15.94	7.24	7.24	14.40	7.00	5.00	13.60	3.30	....	10.00	" ..	25709
34	Linseed tissue, wheat starch, charcoal.	16.19	7.16	3.76	14.88	9.08	14.20	10.20	2.80	.....	4.00	" ..	25710
35	" ..	12.06	6.44	4.12	9.04	16.08	9.25	16.30	3.30	.....	12.50	" ..	25711
36	Linseed tissue, wheat starch, charcoal.	12.44	6.40	5.76	14.48	9.16	7.65	13.30	4.30	.....	7.10	" ..	25712
37	Salt crystals, wheat starch, rest undeter- mined.	12.00	5.00	2.44	34.52	9.32	9.45	33.00	....	2.46	....	" ..	25714
38	Wheat starch, bran, charcoal.	12.19	5.72	2.88	19.00	6.64	7.55	20.80	4.90	.....	13.10	" ..	25715
39	Salt crystals, linseed meal, other vegetable tissues undetermined.	11.63	4.36	3.16	15.36	11.68	14.10	22.50	10.00	15.00	6.90	Miss E. David- son.	28614
40	Mostly wheat, some charcoal.	10.06	10.32	2.12	22.16	3.60	7.90	16.38	.....	0.34	.....	Miss E. David- son.	28042
41	Mostly linseed, other substances undeter- mined.	15.75	9.40	4.88	12.64	8.48	9.35	5.96	.....	.....	.....	" ..	28048
42	Fenugreek, wheat, maize and linseed.	11.31	6.08	1.44	35.72	6.20	7.70	35.50	... ..	3.76	.....	" ..	28049

* Contains salt. † Sodium sulphate.

APPENDIX L.**BULLETIN No. 117.—CATTLE MEDICINES.**

OTTAWA, March, 28, 1906.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I recently had the honour of reporting to you the results of examining samples of the cattle feeds and stock foods which are offered for sale to the agricultural public of Canada. At the time these were collected there were also obtained by the food inspectors samples of condition powders so called, which were supposed, like the stock foods, to have good effects in improving the appearance of the animals to whom they were administered. Of these condition powders or cattle medicines there were collected in all 35 samples which are described in the tabulated statement appended to this report. They were sold under the following names :—

Condition powders.....	24 samples.
Regulators	3 "
Pheno-chloro.	1 "
Cattle medicine	1 "
Hog powder.....	1 "
Worm powders.....,	3 "
Cholic cure.....	1 "
Heave cure.....	1 "
	—
	35 "

It will be seen that only 5 out of the 35 samples are cattle medicines intended for use in cases of specified disease, while the other thirty are supposed to be applicable to all the ills that cattle flesh is heir to. This supposition is sustained by the claims actually made on behalf of about two-thirds of these samples on their labels or wrappers, and noted in the column headed 'Inspectors' report.' Others, such as serial Nos. 5, 7, 8, 9, 18, &c., were sold in bulk and without any claim having been made. Some of the claims recorded (see serial numbers 4, 10 and 20) would really be comical as regards the universal applicability of the medicines if it were not too serious a matter for the poor animals to whom they are to be administered.

The condition powders consist largely of linseed meal, oil cake meal, or bran in which are distributed more or less of other substances which are supposed to have purgative, diuretic, hæmatinic or tonic effects. These powders are in fact the proprietary or patent medicines supposed to be good for farm animals. They vary very much as regards composition. Some condition powders contain chlorides and nitrates; in others such salts are absent; a third class has sulphates in addition to chlorides and nitrates. In a fourth only the sulphates are present in considerable quantity. In some, free sulphur appears to be the characteristic constituent, and, in others, antimony. It does not seem fair to the farmers that remedies differing so much in their ingredients should be sold under a common name, nor can it be advantageous to his animals to have medicines administered without much regard to the nature of the disease. The 'regulators' contain, as a rule, iron salts, but otherwise are just as diverse in composition as the condition powders.

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Among the specific remedies the worm powders exhibit similar diversity in composition, and do not seem to contain the drugs usually prescribed by veterinarians as vermicides.

That there are remedies for specific diseases, used in veterinary practice, which are sold as such is no doubt the case, but as regards the universal cattle medicine or 'cure all,' it is very doubtful as to whether the farmer obtains value for his money. How to regulate the traffic in these it is difficult to say.

As regards the 'adulteration' of these cattle medicines it would seem to be difficult to apply to them the provisions of the Adulteration Act. It is true that the latter defines the expression 'drug' as including all medicines for internal or external use for man or for cattle. The Act further provides that every drug shall be deemed to be 'adulterated' if its strength or purity falls below the professed standard under which it is sold or offered or exposed for sale. But for cattle medicines there are no 'professed standards,' and even if there were, it is enacted that these should not apply if 'the food or drug is a proprietary medicine.'

I beg to recommend the publication of this report.

I have the honor to be, sir,

Your obedient servant,

THOMAS MACFARLANE,
Chief Analyst.

6-7 EDWARD VII., A. 1907

RESULTS OF EXAMINING 35 SAMPLES

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1905.			<i>District of Nova Scotia—R. J. Waugh, Inspector.</i>		
Dec. 7	Dr. Illsley's Tonic Condition Powders.	27115	J. D. Clark, Kentville, N.S., retail druggist and agent for manufacturer.	3 pkgs., 75c.	B. R. Illsley, Kentville, N.S.
" 8	Cattle Medicine	27119	Crowe Bros., retail druggists, Truro, N.S.	1 lb., 50c.	Dairy Association, Lyndonville, Vt.
			<i>District of New Brunswick—J. C. Ferguson, Inspector.</i>		
" 2	Evangeline Condition Powders.	24124	The Canadian Drug Co., Ltd., 29-33 Mill St., St. John, N.B.	3 pkgs., 75c.	Vendors
" 5	Barker's Universal Condition Powders for the cure of horses, cattle, sheep and swine.	24126	T. B. Barker & Sons, 57-59 Dock St., St. John, N.B., wholesale druggists.	3 " 75c.	"
			<i>District of Prince Edward Island—T. Moore, Inspector.</i>		
" 7	Condition Powder	28255	C. D. Rankin, Charlottetown.	1 pkg., 25c.	Hirtles Acma Man'f'g. Co., Lunenburg, N.S.
			<i>District of Quebec—C. E. Roy, Inspector.</i>		
Nov. 27	Dr. Scott's Condition Powder.	29048	Langlois & Paradis, Quebec	½ doz., 30c.	Henri Jonas & Cie, Montreal.
" 29	Poudre de Condition	29053	Drouin & Frère, Quebec . . .	25c.	Jos. Julien, Pont Rouge, Que.
" 29	Dr. Hervay's Condition Powders for horses and cattle.	29054	" "	20c.	The Dr. Hervay's Chemical Co., St. Basile, Que.
			<i>District of St. Hyacinthe—J. C. Rouleau, Inspector.</i>		
Dec. 5	Carnafac Worm Powder.	24792	Cookshire Flour Mills Co., Cookshire.	1 pkg., 50c.	Carnafac Stock Food Co., Winnipeg, Man.
			<i>District of Montreal—J. J. Costigan, Inspector.</i>		
Nov. 28	Pratt's Animal Regulator	26857	Dupuis & Ferguson, 38 Jacques Cartier Square, Montreal.	3 pkgs., 90c.	Imported. Labelled as manufactured in Philadelphia.
" 29	Maud 'S.' Condition Powder for the diseases of horses, cattle, &c.	26858	G. Daoust, St. Anne, Bellevue, Que.	5 " 50c.	Davis, Lawrence Co. Ltd.

SESSIONAL PAPER No. 14
OF CATTLE MEDICINES.

Inspector's Report.	Serial No.	Microscopical Examination by A. Lemoine.	RESULTS OF ANALYSIS BY A. MCGILL.			General Examination.
			Total Ash.	Aqueous Extract.		
				At 100°.	Ignited.	
			p. c.	p. c.	p. c.	
Recommended for the cure of loss of appetite, stoppage of water, worms, roughness of hair, &c.	1	Salt crystals, linseed tissue and other vegetable substances undetermined.	16·66	.....	.....	Licorice and linseed. Chlorides and nitrates largely present.
Samples sold as garget cure.....	2	Salt crystals, sulphur, some vegetable substances undetermined.	21·80	47·50	17·75	Free sulphur, magnesium sulphate and potassium nitrate.
Recommended for impure blood, rough hair, lost appetite, swellings, thick water, worms, cough, horse ail, hidebound, heaves, stoppage of water and bowels.	3	Salt crystals, linseed, fenugreek, pieces of stems, starch granules resembling those of maize, charcoal, &c.	17·34	19·40	10·90	Chlorides and nitrates ; no sulphates.
Recommended for loss of appetite, roughness of the hair, stoppage of bowels or water, or thick water, all coughs and colds, swelling of the glands of the throat, worms, horse ail, hidebound, thick wind and heaves.	4	Large amount of linseed tissue, salt crystals, fenugreek, rosin.	8·44	.....	.....	Linseed and free sulphur.
.....	5	Charcoal, fenugreek, salt crystals, &c.	4·34	.....	.....	Charcoal, no chlorides nor nitrate; constituents chiefly vegetable.
Package labelled, 'this powder gives appetite, causes a fine coat, acts on the urine, purifies the blood, destroys worms.'	6	Linseed tissue, rosin, salt crystals, fenugreek, other vegetable substances undetermined.	37·08	39·70	30·45	Charcoal, nitre, chlorides, sulphates and antimony present.
.....	7	Salt crystals, sulphur, a little linseed tissue, starch granules, &c.	34·40	35·00	19·50	Sulphates, chlorides and nitrates.
.....	8	Linseed tissue, salt crystals, sulphur, &c.	16·70	21·00	4·25	Linseed and free sulphur.
Bought as a condition powder...	9	Linseed tissue, small berries, pieces of stems, other vegetable substances undetermined.	29·50	39·50	27·00	Chlorides, nitrates, sulphates and antimony present.
Claims that it regulates the bowels, blood and digestive organs, thereby eradicating all diseases.	10	Fenugreek, salt crystals, maize, starch, granules, &c.	9·16	36·85	14·10	Chlorides absent and nitrates in small amounts present, also some sulphate of iron and gentian.
For recommendations see No. 20.	11	Linseed, salt crystals, other vegetable substances.	Nitrates and chlorides are absent, sulphates, alumina and iron abundant, heavy metals in traces only.

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RESULTS OF EXAMINING 35 SAMPLES

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1905.			<i>District of Montreal.</i> —Concluded.		
Dec.	2 Purina Condition Powders for cattle, horses and poultry.	26862	G. Labelle, 2 Dorchester St., Montreal.	1 sack, 50c.	Manufactured by vendor.
"	12 Youatt's Condition Powders for horses, cows, sheep, &c.	26878	R. Birks, 207 McGill St., Montreal.	3 pkts., 50c.	Put up by vendor.....
			<i>District of Ottawa—A. E. Sanderson, Inspector.</i>		
Nov.	4 Columbian Regulator ...	28472	L. O. Joly, 481 Wellington St.	1 lb., 10c.	Columbian Stock Food Co., Detroit, U.S.A.
"	6 Pratt's Animal Regulator	28473	A. Blyth, 69 William St..	1 pkg., 30c.	Pratt, Philadelphia, U.S.A.
"	6 Myer's Royal Hog Powders.	28474	H. N. Bate & Sons, wholesale.	1 " 31c.	Myer's, Niagara Falls, N.Y.
"	6 Harold's Improved Condition Powders.	28475	S. J. Major, wholesale, York St.	1 " 9c.	Compagnie Agricolle, Canadienne, Rue St. Denis, Montreal.
"	6 Telmosse's Condition Powders.	28476	" " "	1 pkg., 13c.	Dr. A. I. Telmosse's, Hull, Que.
"	6 Wade's Condition and Worm Powders.	28477	" " "	1 " 8c.	Wade, Hamilton, Ont.
"	6 Maud 'S.' Condition Powders for horses, cattle, sheep and poultry	28478	" " "	1 " 9c.	Davis & Lawrence Co., Ltd., Montreal.

SESSIONAL PAPER No. 14

OF CATTLE MEDICINES—*Continued.*

Inspector's Report.	Serial No.	Microscopical Examination by A. Lemoine.	RESULTS OF ANALYSIS BY A. MCGILL.			General Examination.
			Total Ash.	Aqueous Extract.		
				At 100°.	Ignited.	
			p. c.	p. c.	p. c.	
Put up in 6½-lb. bags. Sold as a great blood purifier, and for loss of appetite, constipation, biliousness, worms, coughs and other complaints.	12	Linseed meal, wheat, maize and probably oat starch granules.	3·64	14·90	1·90	Chiefly herbaceous, wheatstarch and bran in large quantities, sulphates in traces.
Retailed at 20c. per package	13	Fenugreek, linseed, salt crystals, sulphur, some other vegetable substances undetermined.	13·00	25·45	5·45	Charcoal, linseed and free sulphur.
Guaranteed.....	14	Salt crystals, wheat starch granules, bran, &c.	17·90	30·00	..	Chlorides and sulphates largely present, also iron and alumina, no other heavy metals ; bran.
See No. 10.	15	Fenugreek, aniseed, salt crystals, maize, starch, &c.	.....	.....	.....	Chlorides absent, nitrates present in small amounts, much sulphate of iron, contains gentian.
.....	16	Salt crystals, sulphur, antimony.	37·10	52·25	....	Chlorides absent, charcoal and free sulphur present, also sulphates, nitrates and arsenic.
Said to give an appetite, cause a fine coat, act on the urine, purify the blood, and destroy worms.	17	Linseed tissue, salt crystals, charcoal, &c.	11·80	.....	.....	Linseed, nitrates and sulphates.
.....	18	Salt crystals, aromatic powder, armenian bole, &c.	41·78	46·85	....	Bran, armenian bole; but is chiefly Epsom salts and carbonate of soda. Soluble ash = 33·04 p.c.
Said to be 'an unparalleled remedy for heaves, thick and broken wind, coughs, colds, inflammation of the lungs, and all diseases which affect the wind of horses.' Also good for yellow water, botts, worms, &c.	19	Linseed tissue, salt crystals, rosin, &c.	40·52	48·05	.....	Wheat bran; antimony present. Soluble ash amounts to 36·3 p.c.
Said to be advantageous when the animal is affected with worms, loss of appetite, roughness of the hair or coat, stoppage of the water or bowels, coughs and colds, inflammation of lungs and bowels, recent founders, swelling of the glands and throat, horse distemper, hidebound, botts, scurvy, loss of wind, horn distemper, black tongue, &c.	20	Rosin, salt crystals, linseed tissue, &c.	8·88	31·30	4·60	Nitrates and chlorides are absent. Sulphates, alumina and iron abundant. Heavy metals in traces only.

6-7 EDWARD VII., A. 1907

RESULTS OF EXAMINING 35 SAMPLES

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1905.			<i>District of Ottawa—Con.</i>		
Nov. 6	Carnafac Worm Powder.	28479	D. Martin, 169 Rideau St.	1 " 25c.	W. G. Douglas, Winnipeg.
"	6 International Colic Cure.	28480	H. N. Bate & Sons, wholesale.	1 " 33c.	International Stock Food Co., Minneapolis.
"	6 International Phenol-Chloro.	28482	" " "	1 " 17c.	" " "
"	6 Worm Cure	28483	A. Blyth, 69 William St. . .	1 " 50c.	" " "
"	6 Heave Cure.	28484	" " "	1 " 50c.	" " "
			<i>District of Kingston—J. Hogan, Inspector.</i>		
Nov. 22	Kentucky Condition Powders.	28538	H. Skinner Co., Princess St., Kingston.	3 lbs., 75c.	H. Skinner Co., Kingston.
"	27 Farlinger's Universal Condition Powders for horses, cattle, sheep and pigs.	28549	J. A. Farlinger, Morrisburg.	1½ " 75c.	J. A. Farlinger, Morrisburg, Ont.
"	28 Condition Powder	28562	F. W. Conklin, Brockville.	3 " 35c.	F. W. Conklin, Brockville.
			<i>District of Manitoba—W. M. Conklin, Inspector.</i>		
Dec. 11	St. John's Condition Powders.	25713	O. Couture & Co., St. Boniface.	3 pkgs., 75c.	The Martin, Bole & Wynne Co., Winnipeg.
"	22 Condition Powder	25716	The Bole Drug Co., Winnipeg.	1 lb., 25c.	The Bole Drug Co., Winnipeg.
"	22 St. John's Condition Powders for horses, horned cattle, sheep and hogs.	25717	The Martin, Bole & Wynne Co., Winnipeg.	3 pkgs., 75c.	The Martin, Bole & Wynne Co., Winnipeg.
			<i>District of Calgary—W. Fletcher, Inspector.</i>		
Dec. 15	Bole's Condition Powders for horses, cattle, sheep, hogs, &c.	28612	The Bole Drug Co., Calgary, wholesale.	3 " 45c.	The Bole Drug Co., Winnipeg.

SESSIONAL PAPER No. 14

OF CATTLE MEDICINES—Continued.

Inspector's Report.	Serial No.	Microscopical Examination by A. Lemoine.	RESULTS OF ANALYSIS BY A. MCGILL.			General Examination.
			Total Ash.	Aqueous Extract.		
				At 100 .	Ignited.	
			p. c.	p. c.	p. c.	
	21	Linseed tissue, small berries, salt crystals, &c.	28·26	33·40	.....	Wheat bran, chlorides, sulphates and iron. The fineoxide present amounts to 2·4 p.c. Soluble ash=18·6 p.c.
Said to be a quick and sure cure for spasmodic colic, gas colic, flatulent colic, kidney colic, bloat, acute indigestion, grain founder and stoppage of water.	22	Brown coloured liquid...	.....	.....	.....	Liquid. Contains much Glauber's salt in solution.
Sold as 'the greatest known disinfectant, antiseptic and germicide.	23	Thick brown liquid, smelling of tar.	.....	.....	.....	Is essentially crude carbolic acid.
Guaranteed.....	24	Salt crystals, some aromatic powder, a little linseed tissue, charcoal, wheat starch, &c.	46·4	60·20	43·95	Ash is chiefly common salt.
"	25	Salt crystals, wheat starch granules, bran, gum asafœtida; other vegetable substances undetermined.	8·52	21·35	...	Bran, armenian bole, gentian and sulphates. Soluble ash=1·36 p.c.
Recommended for giving tone to the stomach, increasing the appetite and purifying the blood.	26	Fenugreek, linseed tissue, rosin, &c.	19·00	34·75	16·75	Linseed. Much chloride and sulphates. Contains iron and arsenic.
Said to prevent lung troubles, purify the blood, destroy worms, and tone up generally.	27	Linseed tissue, salt crystals, charcoal, rosin, &c.	.....	.....	.....	Contains linseed and licorice; also sulphates, nitrates and antimony.
.....	28	Salt crystals, fenugreek, linseed tissue, &c.	15·00	.....	.....	Much chloride and some sulphate; also licorice and linseed.
.....	29	Fenugreek, salt crystals, linseed, rosin; other vegetable substances undetermined.	17·56	.....	.....	No chlorides or nitrates, but sulphates in large quantity.
.....	30	Salt crystals, rosin, linseed, charcoal or antimony, starch granules undetermined.	15·06	.....	.....	Chlorides; much sulphate and iron.
Recommended 'for horses in low condition, hidebound, bad appetite, low spirits, shaggy coat, broken wind, kidney troubles and inflammation.'	31	Salt crystals, linseed, rosin, &c.	.....	.....	.....	No chlorides or nitrates, but sulphates in large quantity.
Recommended for horses as giving a good appetite, a glossy coat, a loose hide, a healthy appearance and purifying the blood.	32	Fenugreek, linseed tissue, sulphur, salt crystals, &c.	13·50	27·00	10·50	Contains free sulphur; also sulphates, iron and alumina.

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RESULTS OF EXAMINING 35 SAMPLES

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1905.			<i>District of British Columbia</i> <i>—E. B. Parkinson, Inspector.</i>		
Dec. 12	Beaver's Herbageum Condition Powders.	28052	Fred. Allen, wholesale and retail merchant, Vancouver.	4 lbs., 60c.	The Beaver Mfg. Co., Galt, Ont.
" 13	Nelson's Condition Powders.	28053	The Nelson Drug Stores Co., Ltd., Vancouver.	3 pkgs., 75c.	Nelson Drug Stores Co., Ltd., Vancouver.
" 13	Day's English 'Tonic' Powders.	28055	Walworth, Ralston Co., farmer's implement dealers, Vancouver.	3 " \$1.05	The Days Stock Food Co., London, Eng., and Toronto, Can.

SESSIONAL PAPER No. 14
OF CATTLE MEDICINES—*Concluded.*

Inspector's Report.	Serial No.	Microscopical Examination by A. Lemoine.	RESULTS OF ANALYSIS BY A. MCGILL.			
			Total Ash.	Aqueous Extract.		General Examination.
				At 100°.	Ignited.	
			p. c.	p. c.	p. c.	
.....	33	Large amount of linseed tissue, salt crystals, fenugreek, &c.	14.56	.....	.....	Linseed, fenugreek common salt and nitrates.
Said to be a remedy for coughs, inflamed lungs, distemper, kidney and bladder troubles, heaves, thick and broken wind, roughness of skin, &c.	34	Large amount of linseed tissue; other vegetable substances undetermined.	19.90	25.50	....	Chlorides, sulphates, iron and ammonia present; also arsenic; nitrates absent.
Said to be beneficial for cattle out of condition, increases digestion, regulates the bowels and fattens cattle.	35	Salt crystals, linseed tissue, wheat starch, &c.	17.50	32.5	17.25	Much chlorides, sulphates and iron; a little nitrate; armenian bole and bran.

APPENDIX M.

BULLETIN No. 118—STANDARD FERTILIZERS, 1906.

OTTAWA, April 26, 1906.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—Up to the present date there have been received by this branch, in accordance with the provisions of the Fertilizers Act, 153 standard samples of fertilizers which are to be offered for sale in Canada during the present year. This number is above the average, as will be seen from the following statement of the number of such standard samples which have been sent in for analysis during the last ten years :—

In	1897	there were analysed	107	standard samples.
"	1898	" "	124	" "
"	1899	" "	154	" "
"	1900	" "	107	" "
"	1901	" "	102	" "
"	1902	" "	106	" "
"	1903	" "	128	" "
"	1904	" "	111	" "
"	1905	" "	120	" "
"	1906	" "	153	" "

The tabulated statement appended to this report gives the designations of the various brands of fertilizers, the names of the manufacturers or importers, the claims made as regards their fertilizing constituents, and the actual percentage of the latter found in the standard samples on analysis in this laboratory. The 'guaranteed contents' must be understood to indicate only the lowest percentages claimed on the manufacturers label or given in his correspondence with the Department.

As required by the Fertilizers Act, the tabulated statement contains also a column in which the relative value per 2,000 lbs. of each fertilizer is given, calculated from their contents in fertilizing ingredients, the values of these being taken as follows:

	Cents per lb.
Nitrogen in salts of ammonia or in nitrates, as well as in compound fer- tilizers	17
Organic nitrogen in ground bone, fish, blood or tankage.....	16
<i>Phosphoric Acid—</i>	
Soluble in water	6
Soluble in 1 per cent citric acid solution.....	5½
Insoluble in 'Thomas' phosphate powder.....	3½
Insoluble in ground rock, phosphate and fertilizers generally	1½
Potash in high grade salts.....	5

These rates are the same as those of last year, which were then modified in order to bring them to correspond more closely with the present market prices of the

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materials used in the manufacture of fertilizers. The valuation of each brand is calculated on the results of the analysis of the standard samples, but it has been omitted in the case of the guaranteed contents on account of the imperfect character of the information supplied in the majority of instances.

In studying the present tabulated statement there seems to be good grounds for believing that the number of fertilizers of low price is on the increase, and it would appear necessary to call the attention of the farmer to the consideration that the fertilizing constituents in these are likely to cost him more than in fertilizers of a higher grade. It costs as much to mix a ton of fertilizer containing say 300 lbs. of plant food as it does one containing twice that quantity. The cost of packing, cartage and freight is the same per ton. It is evident, therefore, that the manufacturer is in a position to sell the fertilizing constituents of a high grade fertilizer at cheaper rates per pound than those in brands of low grade. In other words, the higher the grade the cheaper can the plant food be bought. Farmers should therefore consider the advantages of purchasing only high grade fertilizers. He should also be advised to avoid those brands which have less than two per cent of ammonia or potash. These percentages are too low in cases where such ingredients are required, and where they are not needed it is useless to purchase them. It is a waste of money to buy nitrogen or potash in fertilizers containing less than one per cent of these ingredients.

I beg to recommend the immediate publication of this report, in order that the analysis of the standard samples may be readily compared with those of the 'fertilizers as sold' which are now being collected.

I have the honour to be, sir,
Your obedient servant,

THOMAS MACFARLANE,
Chief Analyst.

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TABULATED STATEMENT of the Results of Analysis of 153 Standard

Date when Received.	No. of Samples.	Designation.	Name of Manufacturer.	By whom Sent.	From what Materials. Produced.
1905.					
June 12	1723	Blood and Bone Fertilizer.	E. J. Bowen, Seattle, Wash.	Nelson DrugStores Co., Ltd., Vancouver.	Blood and bone...
" 12	1724	Bone Dust Fertilizer.	" "	Brown Bros., Vancouver.	Bone.....
" 12	1725	Blood and Bone Fertilizer.	" "	" "	Blood and bone.....
" 15	1726	Bilston Basic Phosphate.	Alfred Hickman Co., Bilston, Eng.	E. E. McNutt, Truro, N.S.	.....
July 5	1727	Holly Brand Lawn Dressing.	Lilly, Bogardus & Co., Seattle, Wash.	C. F. Foreman, Vancouver.	.....
Sept. 15	1728	Basic Slag.....	Alex. Cross & Son, Ltd., Glasgow.	R. A. Beckwith, East Amherst, N.S.	.....
" 9	1729	Fertilizer.....	Fraser River Oil and Guano Co., Vancouver, B.C.	J. F. E. Kinnell..	.....
1906.					
Jan. 10	1730 A	"	The William Davies Co., Ltd., Toronto.	Edw. Adie, Secretary, Toronto.	Blood, bone and dried organic materials.....
" 10	1731 B	Concentrated Tankage.	" "	" "	Dried meat extract.....
" 11	1732	Tankage	The Laing Packing and Provision Co., Ltd.; Montreal.	Manufacturers....	Bones, offal, hair of cattle, calves, hogs and sheep
" 11	1733	Dried Blood....	" "	"	Blood of cattle, calves, hogs and sheep.
" 16	1734	Fertilizer.....	The Davies Packing Co., Ltd., Harriston, Ont.	Francis F. White, Act. Sec.-Treas..	Dried blood, bones and tankage
" 15	1735	Bradley's New Method Fertilizer.	The American Agricultural Chemical Co., Buffalo, N.Y.	Manufacturers...	Blood, bone and tankage
" 15	1736	Bradley's Bdd. Sea Fowl Guano.	" "	"	" "
" 15	1737	Bradley's Complete Manure.	" "	"	" "
" 15	1738	Special Potash Mixture.	" "	"	" "
" 15	1739	High Grade Potash Compound.	" "	"	" "
" 15	1740	Crocker's New York Special.	" "	"	" "
" 15	1741	Crocker's Wheat and Corn Fertilizer.	" "	"	" "
" 15	1742	Crocker's Cabbage and Potato Manure.	" "	"	" "
" 3	1743	Stockbridge Manure for Potatoes.	Bowker Fertilizer Co., Boston, Mass.	Frank R. Miller ..	Bone, bone black, phosphat guano, bone phosphates, dried blood, meat or fish, sulphate of ammonia or nitrate of soda, sulphate of potash or muriate of potash and sulphuric acid.

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Samples of Commercial Fertilizers, Registered for 1906.

	RESULTS OF ANALYSIS.										Relative value per ton of 2,000 lbs.	No. of sample.	Name of Analyst.
	Nitrogen.		Phosphoric Acid.					Potash.	Moisture.				
	Total including nitric acid and ammonia.	Total calculated as ammonia.	Soluble in water.	Citric soluble.	Insoluble.	Total.	Total available.						
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	\$ cts.			
Guaranteed contents	4.00					14.00							
Standard sample...	5.67	6.46	0.48	10.40	5.43	16.31	10.88		6.45	32 92	1723		
Guaranteed contents	1.50					14.00							
Standard sample....	3.86	4.57		14.00	6.73	20.73	14.00		4.20	30 54	1724		
Guaranteed contents	4.00					14.00							
Standard sample .	11.73	14.24		1.22	1.00	2.22	1.22		12.90	41 52	1725		
Guaranteed contents						20.00							
Standard sample..				14.57	6.70	21.27	14.57		0.20	20 71	1726		
Guaranteed contents	5.00					8.00		5.00					
Standard sample....	3.01	3.65	1.00	5.04	2.00	8.04	6.04	5.05	5.75	23 47	1727		
Guaranteed contents													
Standard sample....				13.14	2.10	15.24	13.14		Trace.	15 92	1728	A. Lemoine.	
Guaranteed contents													
Standard sample....	7.84	9.52	0.67	5.21	1.37	7.25	5.88	Trace.	7.35	33 60	1729	"	
Guaranteed contents	6.83	8.30	13.62						7.19				
Standard sample....	6.93	8.41	1.15	12.45	1.65	15.25	13.60	0.34	6.30	39 46	1730	J. G. A. Valin.	
											A		
Guaranteed contents	13.32	16.18							7.08				
Standard sample ..	13.86	16.83	1.67	0.05	0.40	2.12	1.72	0.57	8.15	49 87	1731	"	
											B		
Guaranteed contents	6.19	7.52							7.51				
Standard sample ...	5.88	7.14	0.72	0.23	0.47	1.42	0.95	0.30	6.25	21 54	1732	"	
Guaranteed contents	11.27	13.68							23.66				
Standard sample....	5.60	6.80	0.37	10.35	3.47	14.20	10.73	0.50	13.80	32 66	1733	"	
Guaranteed contents	5.97	7.25				18.41			2.20				
Standard sample ..	5.04	6.12	0.32	13.20	4.20	17.72	13.52	1.93	2.70	35 22	1734	"	
Guaranteed contents	0.82	1.00	6.00	2.00	1.00	9.00	8.00	2.00					
Standard sample....	0.84	1.02	6.78	1.39	2.55	10.72	8.17	2.32	14.70	15 61	1735	Miss S. E. Wright.	
Guaranteed contents	2.06	2.50	6.00	2.00	1.00	9.00	8.00	1.50					
Standard sample....	2.24	2.72	6.90	3.82	2.71	13.43	10.72	1.60	12.57	22 50	1736	"	
Guaranteed contents	3.29	4.00	6.00	2.00	1.00	9.00	8.00	7.00					
Standard sample...	3.23	3.93	6.78	1.86	2.39	11.03	8.64	7.91	12.40	29 77	1737	"	
Guaranteed contents	0.82	1.00	7.00	2.00	1.00	10.00	9.00	7.00					
Standard sample....	1.26	1.53	7.93	2.31	2.55	12.79	10.24	6.91	12.35	24 00	1738	"	
Guaranteed contents	1.65	2.00	6.00	2.00	1.00	9.00	8.00	10.00					
Standard sample ...	1.71	2.07	7.80	1.16	2.39	11.35	8.96	9.85	12.60	27 00	1739	"	
Guaranteed contents			8.00	2.00	1.00	11.00	10.00	8.00					
Standard sample....			8.44	1.32	2.55	12.31	9.76	8.50	13.25	20 86	1740	"	
Guaranteed contents	2.06	2.50	6.00	2.00	1.00	9.00	8.00	1.50					
Standard sample....	2.14	2.60	7.16	1.16	2.71	11.03	8.32	1.60	12.02	19 54	1741	"	
Guaranteed contents	2.47	3.00	6.00	2.00	1.00	9.00	8.00	6.00					
Standard sample...	2.51	3.03	6.52	3.55	2.88	12.95	10.07	6.25	12.40	27 36	1742	"	
Guaranteed contents		4.00				7.00	6.00	10.00					
Standard sample...	2.70	3.28	5.37	1.18	1.12	7.67	6.55	9.52	7.55	26 76	1743	"	

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TABULATED STATEMENT of the Results of Analysis of 153 Standard

Date when Received.	No. of Sample.	Designation.	Name of Manufacturer.	By whom Sent.	From what Materials Produced.
1906.					
Jan.	3 1744	Stockbridge Manure for Corn.	Bowker Fertilizer Co., Boston, Mass.	Frank R. Miller ..	Bone, bone black, phosphatic guano, bone, phosphates, dried blood, meat or fish, sulphate of ammonia or nitrate of soda, sulphate of potash or muriate of potash and sulphuric acid.
"	3 1745	Bowker's Potato and Vegetable Phosphate.	" ..	" ..	" ..
"	3 1746	Bowker's Farm and Garden Phosphate.	" ..	" ..	" ..
"	3 1747	Bowker's Bone and Potash. Square Brand.	" ..	" ..	" ..
"	3 1748	Southern Guano for Potatoes and Vegetables.	" ..	" ..	" ..
"	3 1749	Bristol Fish and Potash.	" ..	" ..	" ..
"	3 1750	Bowker's Sure Crop Phosphate.	" ..	" ..	" ..
"	3 1751	Bowker's Potash Bone.	" ..	" ..	" ..
"	3 1752	Bowker's 6 p.c. Potato Fertilizer	" ..	" ..	" ..
"	3 1753	Bowker's Corn Phosphate.	" ..	" ..	" ..
"	3 1754	Bowker's Vermont Phosphate.	" ..	" ..	" ..
"	3 1755	Bowker's Superphosphate and Potash.	" ..	" ..	" ..
"	3 1756	Bowker's Hill and Drill Phosphate.	" ..	" ..	" ..
"	3 1757	Bowker's Fresh Ground Bone.	" ..	" ..	.. Bone
"	3 1758	Nitrate of Soda. ..	" ..	" ..	.. Nitrate of soda.....
"	3 1759	Muriate of Potash.	" ..	" ..	.. Muriate of potash.....
"	3 1760	Dissolved Bone Black.	" ..	" ..	.. Bone, bone black, phosphatic guano, bone phosphates and sulphuric acid.
"	3 1761	Bowker's Superphosphate.	" ..	" ..	" ..
"	19 1762	Essex Complete Manure for Potatoes, Roots and Vegetables.	Essex High Grade Fertilizer Co.	S. C. Shaffner, Prov. Manager, Granville Ferry, N.S.	Nitrate of soda, high grade dry western blood, ground fish meal, ground fish bone, high grade sulphate of potash, high grade muriate of potash, double superphosphate and acid phosphate.
"	9 1763	Essex Complete Manure for Corn Grain and Grass.	" ..	" ..	" ..

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Samples of Commercial Fertilizers, Registered for 1906—Continued.

	RESULTS OF ANALYSIS.										Relative value per ton of 2,000 lbs.	No. of Sample.	Name of Analyst.
	Nitrogen.		Phosphoric Acid.					Potash.	Moisture.				
	Total including nitric acid and ammonia.	Total calculated as ammonia.	Soluble in water.	Citric soluble.	Insoluble.	Total.	Total available.						
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	\$ cts.			
Guaranteed contents Standard sample....	..... 2.78	4.00 3.37	..... 6.65	..... 3.46	..... 2.68	11.00 12.79	7.00 10.11	..... 7.45	..... 5.87	..... 29.48	1744	Miss S. E. Wright.
Guaranteed contents Standard sample....	..... 1.85	2.00 2.14	..... 7.93	..... 1.51	..... 1.91	10.00 11.35	9.00 9.44	2.00 3.51	..... 7.20	..... 21.54	1745	"
Guaranteed contents Standard sample....	..... 1.90	2.00 2.31	..... 7.29	..... 1.35	..... 2.55	9.00 11.19	8.00 8.64	2.00 1.48	..... 6.60	..... 18.97	1746	"
Guaranteed contents Standard sample....	..... 1.34	2.00 1.63	..... 3.20	..... 5.91	..... 1.92	7.00 11.03	6.00 9.11	2.00 2.35	..... 3.03	..... 17.61	1747	"
Guaranteed contents Standard sample....	..... 1.89	2.00 2.29	..... 4.99	..... 3.14	..... 3.25	7.00 11.38	6.00 8.13	2.00 2.99	..... 5.20	..... 19.82	1748	A. Lemoine.
Guaranteed contents Standard sample....	..... 1.37	2.00 1.66	..... 3.68	..... 3.19	..... 2.08	8.00 8.95	5.00 6.87	2.00 3.57	..... 3.27	..... 16.75	1749	Miss S. E. Wright.
Guaranteed contents Standard sample....	..... 1.27	1.00 1.54	..... 5.43	..... 4.80	..... 2.88	10.00 13.11	9.00 10.23	2.00 3.18	..... 4.57	..... 20.14	1750	"
Guaranteed contents Standard sample....	..... 0.98	1.00 1.19	..... 4.79	..... 3.85	..... 1.59	7.00 10.23	6.00 8.64	2.00 2.70	..... 3.95	..... 16.47	1751	A. Lemoine.
Guaranteed contents Standard sample....	..... 0.90	1.00 1.10	..... 5.75	..... 3.33	..... 1.47	7.00 10.55	6.00 9.08	6.00 6.33	..... 5.05	..... 20.39	1752	"
Guaranteed contents Standard sample....	..... 1.68	2.00 2.04	..... 6.07	..... 4.53	..... 0.90	9.00 11.50	8.00 10.60	2.00 2.81	..... 6.20	..... 20.96	1753	"
Guaranteed contents Standard sample....	..... 2.38	3.00 2.89	..... 7.03	..... 1.61	..... 2.55	10.00 11.19	8.00 8.64	4.00 4.34	..... 8.70	..... 23.39	1754	"
Guaranteed contents Standard sample....	..... .....	..... .....	..... 8.31	..... 1.93	..... 1.59	11.00 11.83	10.00 10.24	1.00 2.83	..... 5.85	..... 15.39	1755	"
Guaranteed contents Standard sample....	..... 2.57	3.00 3.12	..... 3.20	..... 5.11	..... 2.72	10.00 11.03	9.00 8.31	2.00 2.45	..... 6.67	..... 21.45	1756	Miss S. E. Wright.
Guaranteed contents Standard sample....	..... 2.69	3.00 3.26	..... 1.12	..... 8.90	..... 11.83	18.00 20.95	5.00 9.12	0.00 .....	..... 5.25	..... 22.52	1757	"
Guaranteed contents Standard sample....	..... 14.28	18.00 17.34	..... .....	..... .....	..... .....	0.00 .....	..... .....	0.00 .....	..... 0.63	..... 48.55	1758	"
Guaranteed contents Standard sample....	..... .....	0.00 .....	..... .....	..... .....	..... .....	0.00 .....	..... .....	50.00 50.60	..... 1.10	..... 50.60	1759	A. Lemoine.
Guaranteed contents Standard sample....	..... .....	0.00 .....	..... 11.38	..... 3.78	..... 3.39	16.00 18.55	15.00 15.16	0.00 .....	..... 3.45	..... 18.81	1760	"
Guaranteed contents Standard sample....	..... .....	0.00 .....	..... 9.27	..... 3.01	..... 1.47	15.00 13.75	13.00 12.28	0.00 .....	..... 7.10	..... 14.97	1761	"
Guaranteed contents Standard sample....	3.70 3.19	4.50 3.87	3.00 2.75	4.00 5.40	2.00 3.80	9.00 11.95	..... 8.15	8.00 7.99	..... 4.95	..... 29.21	1762	"
Guaranteed contents Standard sample....	3.30 2.80	4.00 3.40	3.00 6.90	4.00 4.93	2.50 2.43	9.50 14.26 11.83	9.50 10.60 10.20 34.44	1763	"	

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TABULATED STATEMENT of the Results of Analysis of 153 Standard

Date when Received.	No. of Sample.	Designation.	Name of Manufacturer.	By whom Sent.	From what Materials Produced.
1906.					
Jan. 19	1764	Essex Market Garden and Potato Manure.	Essex High Grade Fertilizer Co.	S. C. Schaffner, Prov. Manager, Granville Ferry, N.S.	Nitrate of soda, high grade dry western blood, ground fish meal, ground fish bone, high grade sulphate of potash, high grade muriate of potash, double superphosphate and acid phosphate.
" 19	1765	Essex Dry Ground Fish.	" " "	" " "	" " "
" 19	1766	Essex Ground Bone.	" " "	" " "	" " "
" 19	1767	Essex XXX Fish and Potash.	" " "	" " "	" " "
" 19	1768	Essex Orchard Fertilizer.	" " "	" " "	" " "
" 24	1769	Unground Tankage.	Harris Abattoir Co., Ltd., Toronto, Ont..	J. S. McLean, Secy.-Treas.	Dried bone and meaty matter
" 25	1770	Imperial Superphosphate.	Provincial Chemical Fertilizer Co., Ltd., St. John, N.B.	Manufacturers.....	.....
" 25	1771	Potato Phosphate	" " "	" " "	.....
" 25	1772	Victor Guano.....	" " "	" " "	.....
" 25	1773	Bone Meal.....	" " "	" " "	.....
" 25	1774	Blood, Bone, Potash .....	" " "	" " "	.....
" 25	1775	10 p.c. Complete 'Aroostook' Potato.	" " "	" " "	.....
" 30	1776	Bradley's Superphosphate for Orchards.	American Agricultural Chemical Co., Boston Sales Dept.	C.J.Ormsby, of the American Agricultural Chemical Co., Boston .	Bone black, phosphatic guano muriate and sulphate of potash.
" 30	1777	Bradley's Potato Fertilizer.	" " "	" " "	Bone black, animal bone, phosphatic guanos, dried fish, meat or blood, nitrate of soda or sulphate of ammonia, sulphate and muriate of potash, sulphuric acid.
" 30	1778	Bradley's XL Superphosphate of Lime.	" " "	" " "	" " "
" 30	1779	Bradley's Farmers' New Method Fertilizer.	" " "	" " "	" " "
" 30	1780	Bradley's Fine Ground Bone.	" " "	" " "	" " "
" 30	1781	Bradley's Eclipse Phosphate.	" " "	" " "	" " "
" 30	1782	Bradley's Eureka Fertilizer.	" " "	" " "	" " "
" 30	1783	Bradley's Alkaline Bone and Potash	" " "	" " "	" " "
" 30	1784	Bradley's Complete Manure with 10% Potash	" " "	" " "	" " "

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Samples of Commercial Fertilizers, Registered for 1906--Continued.

	RESULTS OF ANALYSIS.										Relative value per ton of 2,000 lbs.	No. of Sample.	Name of Analyst.
	Nitrogen.		Phosphoric Acid.					Potash.	Moisture.				
	Total including nitric acid and ammonia.	Total calculated as ammonia.	Soluble in water.	Citric soluble.	Insoluble.	Total.	Total available.						
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	\$ cts.			
Guaranteed contents	2.00	2.40	4.00	4.00	2.00	10.00		5.00					
Standard sample...	1.82	2.21	3.19	4.36	4.47	12.02	7.55	5.46	9.05	21 69	1764	A. Lemoine.	
Guaranteed contents	8.00					11.00							
Standard sample....	7.77	9.43	0.50	8.88	3.12	12.50	9.38		8.95	37 70	1765	J. G. A. Valin.	
Guaranteed contents		3.10				24.14							
Standard sample....	2.94	3.57		13.40	7.00	20.40	13.40		5.60	26 83	1766	"	
Guaranteed contents	2.10	2.50	4.50	4.50	3.00	12.00		2.00					
Standard sample....	2.03	2.46	3.12	7.18	3.12	13.42	10.30	2.21	8.20	20 47	1767	"	
Guaranteed contents		2.00	4.00	3.00	2.00	9.00		8.50					
Standard sample...	1.68	2.04	2.25	5.10	4.40	11.75	7.35	8.99	4.60	24 43	1768	"	
Guaranteed contents	5.83	7.68					14.87		5.23				
Standard sample....	5.88	7.14		12.18	2.82	15.00	12.18	0.73	4.80	34 15	1769	"	
Guaranteed contents		3.00					10.50	1.50					
Standard sample....	2.59	3.00	6.00	2.48	4.77	13.25	8.48	1.35	10.10	21 50	1770	"	
Guaranteed contents		2.50					8.00	6.50					
Standard sample....	2.17	2.63	5.43	3.66	5.11	14.20	9.09	7.60	8.30	27 03	1771	A. Lemoine.	
Guaranteed contents		2.00					7.00	2.50					
Standard sample..	1.82	2.21	4.35	5.69	4.99	15.03	10.04	1.48	6.95	20 62	1772	"	
Guaranteed contents		3.10				24.14							
Standard sample....	3.39	4.11		14.60	8.05	22.65	14.60		5.70	28 20	1773	"	
Guaranteed contents		2.00					7.00	4.00					
Standard sample....	1.96	2.38	4.15	4.16	4.99	13.30	8.31	4.48	9.30	22 17	1774	"	
Guaranteed contents		4.00					8.00	10.00					
Standard sample....	2.80	3.40	5.87	1.63	3.57	11.07	7.50	9.61	13.15	29 03	1775	J. G. A. Valin.	
Guaranteed contents			11.00				14.00						
Standard sample....	0.43	0.51	11.60	2.80	0.80	15.20	14.40	1.77	16.00	20 47	1776	"	
Guaranteed contents	2.06	2.50	5.00	3.00	2.00	10.00	8.00	3.00					
Standard sample....	1.89	2.29	6.55	2.20	2.25	11.00	8.75	2.56	15.00	19 93	1777		
Guaranteed contents	2.06	2.50	5.00	3.00	2.00	10.00	8.00	1.50					
Standard sample....	2.24	2.72	5.57	3.56	2.72	11.85	9.13	2.25	14.20	21 26	1778	"	
Guaranteed contents	1.03	1.25	6.60	2.00	2.00	10.00	8.00	2.00					
Standard sample. . .	1.19	1.44	4.77	4.08	1.85	10.70	8.85	2.21	11.75	17 00	1779	"	
Guaranteed contents	2.50	3.00				21.20							
Standard sample....	2.38	2.89		16.70	8.05	24.75	16.70	0.27	3.85	29 14	1780	"	
Guaranteed contents	1.03	1.25	6.00	2.00	2.00	10.00	8.00	2.00					
Standard sample...	1.17	1.42	5.75	4.53	1.79	12.07	10.28	2.08	11.15	18 46	1781	A. Lemoine	
Guaranteed contents	1.03	1.25	6.00	2.00	2.00	10.00	8.00	2.00					
Standard sample....	1.17	1.42	5.63	3.27	3.25	12.15	8.90	2.85	11.05	18 13	1782	"	
Guaranteed contents			6.00	5.00	1.00	12.00	11.00	2.00					
Standard sample...			5.43	5.37	0.90	11.70	10.80	2.56	15.50	15 24	1783	"	
Guaranteed contents	3.30	4.00	4.00	2.00	1.00	7.00	6.00	10.00					
Standard sample....	2.24	2.72	4.35	3.35	0.80	8.50	7.70	10.66	9.60	27 41	1784	"	

6-7 EDWARD VII., A. 1907

TABULATED STATEMENT of the Results of Analysis of 153 Standard

Date when Received.	No. of Sample.	Designation.	Name of Manufacturer.	By whom Sent.	From what Materials Produced.
1906.					
Jan. 30	1785	Read's Standard Superphosphate.	American Agricultural Chemical Co., Boston Sales Dept.	C. J. Ormsby, of the American Agricultural Chemical Co., Boston.	Boneblack, animal bone, phosphatic guanos, dried fish, meat or blood, nitrate of soda, or sulphate of ammonia, sulphate and muriate of potash, sulphuric acid.
" 30	1786	Read's Sure Catch Fertilizer.	" "	" "	Bone black, phosphatic guanos, muriate and sulphate potash.
" 30	1787	Read's Fish, Bone and Potash.	" "	" "	Bone black, animal bone, phosphatic guanos, dried fish, meat or blood, nitrate of soda, or sulphate ammonia, sulphate or muriate of potash, sulphuric acid.
" 30	1788	Tucker's Imperial Bone Superphosphate.	" "	" "	" "
" 30	1789	William's and Clark's Americus Potato Manure.	" "	" "	" "
" 30	1790	Pacific Potato Special.	" "	" "	" "
" 30	1791	Pacific Nobsque Guano.	" "	" "	" "
" 30	1792	Pacific Fine Ground Bone.	" "	" "	" "
" 30	1793	Soluble Pacific Guano.	" "	" "	" "
" 30	1794	Quinnipiac Climax Phosphate for all Crops.	" "	" "	" "
" 30	1795	Cumberland Superphosphate.	" "	" "	" "
" 30	1796	Cumberland Potato Fertilizer.	" "	" "	" "
" 30	1797	Cumberland Fine Ground Bone.	" "	" "	" "
" 30	1798	Standard Fertilizer.	" "	" "	" "
" 30	1799	Standard Special for Potatoes.	" "	" "	" "
" 29	1800	Thomas' Phosphate Powder (Ground Basic Slag).	Chemical Works, late H. & E. Albert, 15 Philpot Lane, London, E.C.	Anglo Canadian Chemical Co., St. John, N.B.	
" 29	1801	Albert's Horticultural Manure, Brand "A.G."	" "	" "	
Feb. 1	1802	Freeman's Sure Growth Manure.	The W. A. Freeman Co., Ltd., Hamilton, Ont.	Manufacturers...	Phosphate, bone, blood, tankage, sulphuric acid, muriate of potash, sulphate of potash, sulphate of ammonia, nitrate of soda.
" 1	1803	Freeman's Bone and Potash.	" "	" "	" "

SESSIONAL PAPER No. 14

Samples of Commercial Fertilizers, Registered for 1906—Continued.

	RESULTS OF ANALYSIS.										Relative value per ton of 2,000 lbs.	No. of Sample.	Name. of Analyst.
	Nitrogen.		Phosphoric Acid.					Potash.	Moisture.				
	Total including nitric acid and ammonia.	Total calculated as ammonia.	Soluble in water.	Citric soluble.	Insoluble.	Total.	Total available.						
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	\$ cts.			
Guaranteed contents	0.82	1.00	5.00	3.00	2.00	10.00	8.00	4.00	.....	.....			A. Lemoine.
Standard sample....	1.26	1.53	5.11	5.77	1.91	12.79	10.88	4.40	13.20	21 72	1785		
Guaranteed contents	.....	.....	6.00	4.00	1.00	11.00	10.00	2.00	.....	.....			"
Standard sample....	.....	.....	5.63	3.46	3.25	12.34	9.09	2.49	15.25	14 01	1786		
Guaranteed contents	2.00	2.40	3.00	1.00	1.00	5.00	4.00	4.00	.....	.....			J. G. A. Valin.
Standard sample....	2.10	2.55	4.57	3.28	1.27	9.12	7.85	3.59	11.15	20 29	1787		
Guaranteed contents	1.03	1.25	6.00	2.00	2.00	10.00	8.00	2.00	.....	.....			"
Standard sample....	1.33	1.61	5.70	3.53	2.07	11.30	9.23	2.00	11.40	17 86	1788		
Guaranteed contents	2.06	2.50	5.00	3.00	2.00	10.00	8.00	3.00	.....	.....			"
Standard sample....	2.01	2.44	6.52	2.53	1.95	11.00	9.05	2.74	14.60	20 75	1789		
Guaranteed contents	2.06	2.50	5.00	3.00	2.00	10.00	8.00	3.00	.....	.....			"
Standard sample ..	2.07	2.51	6.82	2.23	2.05	11.00	9.05	2.64	15.85	20 91	1790		
Guaranteed contents	1.03	1.25	6.00	2.00	2.00	10.00	8.00	2.00	.....	.....			"
Standard sample....	1.12	1.36	5.30	3.58	2.12	11.00	8.88	2.00	10.50	16 72	1791		
Guaranteed contents	2.50	3.00	.....	.....	.....	21.00	.....	.....	.....	.....			"
Standard sample....	2.73	3.31	.....	15.25	8.75	24.00	15.25	.....	3.75	28 67	1792		
Guaranteed contents	2.06	2.50	5.00	3.00	2.00	10.00	8.00	1.50	.....	.....			Miss S. E. Wright.
Standard sample ..	2.18	2.65	6.72	2.23	2.56	11.51	8.95	2.12	14.42	20 80	1793		
Guaranteed contents	1.03	1.25	6.00	2.00	2.00	10.00	8.00	2.00	.....	.....			"
Standard sample....	1.70	2.05	7.20	2.87	2.08	12.15	10.07	2.51	11.17	20 70	1794		
Guaranteed contents	2.06	2.50	5.00	3.00	2.00	10.00	8.00	1.50	.....	.....			"
Standard sample ..	2.21	2.69	6.40	3.51	2.56	12.47	9.91	1.87	14.30	21 68	1795		
Guaranteed contents	2.06	2.50	5.00	3.00	2.00	10.00	8.00	3.00	.....	.....			"
Standard sample....	1.75	2.12	6.88	3.51	2.24	12.63	10.39	3.11	15.23	21 84	1796		
Guaranteed contents	2.50	3.00	.....	.....	.....	21.00	.....	.....	.....	.....			"
Standard sample...	2.77	3.37	.....	17.42	8.64	26.06	17.42	.....	3.23	31 16	1797		
Guaranteed contents	2.06	2.50	5.00	3.00	2.00	10.00	8.00	1.50	.....	.....			"
Standard sample....	2.20	2.67	6.71	2.72	2.72	12.15	9.43	1.70	13.67	21 03	1798		
Guaranteed contents	2.06	2.50	5.00	3.00	2.00	10.00	8.00	3.00	.....	.....			A. Lemoine.
Standard sample....	2.24	2.72	6.39	4.80	2.43	13.62	11.19	3.93	14.74	25 20	1799		
Guaranteed contents	.....	.....	.....	.....	.....	17.20	.....	.....	.....	.....			"
Standard sample....	.....	.....	.....	15.16	3.71	18.87	15.16	.....	Trace.	19 26	1800		
Guaranteed contents	12.07	.....	11.18	.....	.....	.....	.....	19.68	.....	.....			"
Standard sample ...	11.96	14.51	11.06	1.54	1.79	14.39	12.60	20.00	2.55	76 15	1801		
Guaranteed contents	.....	.....	.....	.....	.....	8.00	.....	3.00	.....	.....			"
Standard sample....	4.06	4.93	4.67	5.75	.....	10.42	10.42	3.34	8.45	29 06	1802		
Guaranteed contents	.....	2.00	.....	.....	.....	9.00	.....	6.00	.....	.....			"
tandard sample....	5.81	7.05	4.03	3.32	1.28	8.63	7.35	8.59	7.20	37 20	1803		

TABULATED STATEMENT of the Results of Analysis of 153 Standard

Date when Received.	No. of Sample.	Designation.	Name of Manufacturer.	By whom Sent.	From what Materials. Produced.
1906.					
Feb.	1 1804	Freeman's Celery and Early Vegetable Manure.	The W. A. Freeman Co., Ltd., Hamilton, Ont.	Manufacturers...	Phosphate, bone, blood, tankage, sulphuric acid, muriate of potash, sulphate of potash, sulphate of ammonia, nitrate of soda.
"	1 1805	Freeman's Phosphate Powder.	" " "	"	" " "
"	1 1806	Freeman's Potato Manure.	" " "	"	" " "
"	1 1807	Freeman's Tankage Manure.	" " "	"	" " "
"	1 1808	Freeman's Special Tobacco Manure	" " "	"	" " "
"	1 1809	Freeman's Pure Bone Meal.	" " "	"	" " "
"	1 1810	Reid's Superphosphate (not labeled).	Thomas Reid, Parish of Simonds, County St. John, N.B.	Manufacturer.	Bones, spent-char, old meat, fish refuse, phosphate rock, kainite, salamonia.
"	5 1811	Superphosphate of Lime. (No label)	The Standard Fertilizer and Chemical Co., Ltd., Smith's Falls, Ont.	Manufacturers.....	.....
"	5 1812	Special Fertilizer .	" " "	" ..	.....
"	5 1813	Standard Fertilizer	" " "	" ..	.....
"	5 1814	Star Fertilizer... .	" " "	" ..	.....
"	5 1815	No. 1 Fertilizer...	" " "	" ..	.....
"	5 1816	Royal Fertilizer ..	" " "	" ..	.....
"	5 1817	Swift's Lowell Bone Fertilizer.	Swift's Lowell Fertilizer Co., 44 North Market St., Boston, Mass.	"	Blood, meat, bone, bone black, bone phosphates, nitrate of soda or sulphate of ammonia, and sulphate or muriate of potash.
"	5 1818	Swift's Lowell Potato Manure.	" " "	" ..	" " "
"	5 1819	Swift's Lowell Potato Phosphate..	" " "	" ..	" " "
"	5 1820	Swift's Lowell Animal Brand.	" " "	" ..	" " "
"	5 1821	Swift's Lowell Ground Bone.	" " "	" ..	.....
"	5 1822	"Potato Phosphate."	The Nova Scotia Fertilizer Co., Halifax, N.S.	"	Bon-char, bone, dried blood, tankage, meat, fish, bone phosphates, sulphate of ammonia, nitrate of soda, high grade muriate of potash or sulphate of potash and sulphuric acid.
"	8 1823	"Ceres Superphosphates."	" " "	"	" " "
"	8 1824	"Bone Meal " . . .	" " "	" ..	" " "

SESSIONAL PAPER No. 14

Samples of Commercial Fertilizers, Registered for 1906—Continued.

	RESULTS OF ANALYSIS.										Relative value per ton of 2,000 lbs.	No. of Sample.	Name of Analyst.
	Nitrogen.		Phosphoric Acid.					Potash.	Moisture.				
	Total including nitric acid and ammonia.	Total calculated as ammonia.	Soluble in water.	Citric soluble.	Insoluble.	Total.	Total available.						
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	\$ cts.			
Guaranteed contents		6.00				9.00		6.00					
Standard sample....	9.24	11.22	2.43	4.44	0.80	7.67	6.87	8.07	5.85	47 51	1804	A. Lemoine.	
Guaranteed contents						15.00							
Standard sample....	0.21	0.25	8.25	0.33	6.12	14.70	8.58	0.09	13.15	12 88	1805	J. G. A.	
Guaranteed contents		3.00				8.00		5.00				Valin.	
Standard sample....	2.38	2.89	3.85	4.25	1.50	9.60	8.10	6.56	7.65	24 41	1806	"	
Guaranteed contents		5.00				12.00						"	
Standard sample....	7.70	9.35	0.70	7.20	4.07	11.97	7.90	0.61	8.90	36 77	1807	"	
Guaranteed contents		3.00				8.00		4.00				"	
Standard sample...	3.65	4.43	3.82	4.31	1.42	9.55	8.13	4.88	9.20	27 03	1808	"	
Guaranteed contents		3.00				23.00						"	
Standard sample...	2.52	3.00		15.50	10.00	25.50	15.50		5.90	28 61	1809	"	
Guaranteed contents												"	
Standard sample....	2.75	3.82	1.75	5.18	1.62	8.55	6.93	2.83	15.75	20 45	1810	"	
Guaranteed contents												"	
Standard sample....	0.17	0.20	9.82	2.00	4.15	15.97	11.82		9.15	15 79	1811	"	
Guaranteed contents		3.50	8.00				10.00	6.00				"	
Standard sample....	2.94	3.57	6.07	2.43	1.95	10.45	8.50	6.72	12.30	27 24	1812	"	
Guaranteed contents		2.50	9.00				11.00	2.00				"	
Standard sample....	1.96	2.38	6.05	3.95	2.37	12.37	10.00	1.56	8.60	20 53	1813	"	
Guaranteed contents		2.00					5.00	2.00				"	
Standard sample....	1.82	2.21	3.35	3.10	1.30	7.75	6.45	1.76	3.20	15 76	1814	"	
Guaranteed contents		2.00					9.00	2.00				"	
Standard sample....	2.22	2.58	5.40	3.35	2.15	10.90	8.75	1.50	13.25	19 84	1815	"	
Guaranteed contents		2.00					8.00	3.00				"	
Standard sample...	1.72	2.21	4.85	2.78	2.37	10.00	7.63	2.51	6.15	17 93	1816	"	
Guaranteed contents		2.00				9.00	8.00	3.00				"	
Standard sample....	1.92	2.33	6.88	2.07	2.24	11.19	8.95	3.19	10.52	20 90	1817	Miss S. E. Wright.	
Guaranteed contents		2.00				8.00	7.00	4.00				"	
Standard sample....	2.04	2.48	6.08	2.87	1.76	10.71	8.95	4.40	10.50	22 27	1818	"	
Guaranteed contents		3.00				9.00	8.00	6.00				"	
Standard sample....	2.49	3.03	6.72	3.04	2.08	11.84	9.76	6.85	10.75	27 33	1819	"	
Guaranteed contents		3.00				10.00	9.00	4.00				"	
Standard sample...	2.55	3.09	6.08	4.00	2.52	12.60	10.08	4.29	10.40	25 40	1820	"	
Guaranteed contents		3.00				25.00						"	
Standard sample....	2.79	3.38		19.03	8.64	27.67	19.03		2.82	33 01	1821	"	
Guaranteed contents		2.00	1.00	2.00	5.00	8.00	7.00	4.00				"	
Standard sample ...	2.57	3.12	6.70	2.18	1.52	10.40	8.88	6.50	11.85	26 94	1822	"	
Guaranteed contents		2.00				8.00	7.00	2.00				"	
Standard sample....	2.61	3.17	5.92	4.08	1.90	11.90	10.00	4.48	12.00	25 45	1823	A. Lemoine.	
Guaranteed contents		3.00										"	
Standard sample....	3.85	4.67	1.50	20.60	6.90	29.00	22.10		7.35	39 62	1824	"	

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TABULATED STATEMENT of the Results of Analysis of 153 Standard

Date when Received.	No. of Sample.	Designation.	Name of Manufacturer.	By whom Sent.	From what Materials Produced.
1906.					
Feb. 8 1825		"Fruit Tree".....	The Nova Scotia Fertilizer Co., Halifax, N. S.	Manufacturers....	Bon-char, bone, dried blood, tankage, meat, fish, bone, phosphates, sulphate of ammonia, nitrate of soda, high grade muriate of potash or sulphate of potash and sulphuric acid.
" 8 1826		"Southern Guano"	" " ..	"	" "
" 8 1827		"Blood, Bone and Potash."	" " ..	"	" " ..
" 8 1828		"Bone and Potash."	" " .	"	" " .
" 12 1829		"Burris Ground Bone."	Mr. T. D. Burris, Truro, N. S.	Manufacturer .....	.....
1905.					
May 9 1830		Dow's Pure Bone Dust.	John C. Dow Co., Boston, Mass.	C. O. Cook, Waterville, N. S.	.....
June 7 1831		Great Eastern High Grade Potato Manure.	American Agricultural Chemical Co.	" " ..	.....
1906.					
Feb. 5 1832		New England Potato Fertilizer.	New England Fertilizer Co., 43 North Market St., Boston.	New England Fertilizer Co.	Blood, meat, bone, bone black, bone phosphates, nitrate of soda, or sulphate of ammonia, sulphate or muriate of potash.
" 5 1833		New England Corn and Grain.	" " ..	" "	" "
" 5 1834		New England Corn Phosphate.	" " ..	" "	" "
March 1 1835		"H."	W. Harris & Co., Toronto, Ont.	W. Harris & Co....	.....
" 1 1836		Bone Meal.....	" " .	" .....	.....
" 2 1837		International Grain and Grass Fertilizer.	International Seed Co., Rochester, N. Y., U. S. A.	International Seed Co.	.....
" 2 1838		International Potato and Truck Manure.	" " ..	" " .....	.....
" 12 1839		Bilston Basic Phosphate.	Alfred Hickman, Ltd., Bilston, Eng.	E. E. McNutt, Truro, N. S., 30 Prince St.,	.....
" 16 1840		Thomas' Phosphate Flour.	The Arnott Chemical Co., 114 Victoria St., Toronto, Ont.	E. W. Campbell Arnott.	.....
" 21 1841		Ground Bone.....	The Pidgeon Fertilizer Co., Ltd., Windsor, Nova Scotia.	Manufacturers ...	Ground bone, tankage and nitrate of soda, muriate of potash and kainite, phosphoric rock and sulphuric acid.
" 21 1842		Eureka Phosphate.	" " ..	"	" "

SESSIONAL PAPER No. 14

Samples of Commercial Fertilizers, Registered for 1906—Continued.

	RESULTS OF ANALYSIS.										Relative value per ton of 2,000 lbs.	No. of Sample.	Name of Analyst.
	Nitrogen.		Phosphoric Acid.				Total available.	Potash.	Moisture.				
	Total including nitric acid and ammonia.	Total calculated as ammonia.	Soluble in water.	Citric soluble.	Insoluble.	Total.							
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	\$ cts.			
Guaranteed contents		3.00					8.00	6.00					
Standard sample.	2.80	3.40	7.99	2.89	1.59	12.47	10.88	7.53	14.00	30 27	1825	A. Lemoine.	
Guaranteed contents		2.00				7.00		2.50					
Standard sample....	2.24	2.72	5.95	1.74	3.18	10.87	7.69	4.40	10.95	22 69	1826	"	
Guaranteed contents		2.00					7.00	4.00					
Standard sample....	2.10	2.55	6.39	1.49	3.18	11.06	7.88	4.78	11.20	22 16	1827	"	
Guaranteed contents		2.00				11.00		2.00					
Standard sample....	2.24	2.72	1.59	3.97	4.03	9.59	5.56	3.43	7.35	18 50	1828	"	
Guaranteed contents													
Standard sample....	3.92	4.76		11.24	10.70	21.94	11.24		8.65	30 09	1829	"	
Guaranteed contents													
Standard sample...	1.96	2.38		20.66	11.32	31.98	20.66		3.65	32 38	1830	J. G. A. Valin.	
Guaranteed contents													
Standard sample....	3.01	3.65	4.60	3.41	1.91	9.92	8.01	9.44	9.46	29 52	1831	"	
Standard sample....		2.00				8.00	7.00	4.00					
Guaranteed contents	1.96	2.38	6.70	4.00	Trace	10.70	10.70	4.32	10.70	23 42	1832	A. Lemoine.	
Guaranteed contents		1.50				8.00	7.00	2.00					
Standard sample....	1.54	1.87	6.39	1.29	1.91	9.59	7.68	3.26	8.75	16 72	1833	"	
Guaranteed contents		2.00				9.00	8.00	3.00					
Standard sample....	2.10	2.55	7.86	3.21	1.59	12.66	11.07	3.16	10.70	23 73	1834	"	
Guaranteed contents													
Standard sample....	4.06	4.93		7.36	3.19	10.55	7.36	0.29	6.95	23 13	1835	"	
Guaranteed contents													
Standard sample....	3.64	4.42		13.63	7.99	21.62	13.63		4.70	29 85	1836	"	
Guaranteed contents		2.00					10.00	2.00					
Standard sample....	1.93	2.35	8.63	0.96	2.08	11.67	9.59	2.97	12.72	21 55	1837	Miss S. E. Wright.	
Guaranteed contents		1.50					8.00	7.00					
Standard sample....	1.90	2.33	6.39	2.08	2.24	10.71	8.47	7.07	11.70	24 14	1838	"	
Guaranteed contents						20.00							
Standard sample ...				18.24	4.15	22.39	18.24		0.80	21 10	1839	"	
Guaranteed contents						18.00							
Standard sample....				16.00	6.55	22.55	16.00		0.32	19 56	1840	"	
Guaranteed contents		3.00					20.00						
Standard sample....	2.80	3.40		15.20	8.63	23.83	15.20		5.97	28 82	1841	"	
Guaranteed contents		2.50					8.00	2.00					
tandard sample....	2.21	2.59	5.12	3.03	2.72	10.87	8.15	2.10	12.05	20 00	1842	"	

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TABULATED STATEMENT of the Results of Analysis of 153 Standard

Date when Received.	No. of Sample.	Designation.	Name of Manufacturer.	By whom Sent.	From what Materials Produced.
1906.					
Mar. 21	1843	Intense.....	The Pidgeon Fertilizer Co., Ltd., Windsor, Nova Scotia.	Manufacturers....	Ground bone, tankage and nitrate of soda, muriate of potash and kainite, phosphoric rock and sulphuric acid.
"	21 1844	Potato Manure....	" "	"	" " ..
"	21 1845	Potato Guano....	" "	"	" " ..
"	27 1846	Thomas' Phosphate Powder (Ground Basic Slag).	Chemical Works, late H. & E. Albert, 15 Philpot Lane, London, E.C.	The Anglo-Canadian Chemical Co., St. John, NB	.....
April 5	1847	Great Eastern High Grade Potato Manure.	American Agricultural Chemical Co., New York.	Manufacturers.	.....
"	5 1848	Great Eastern Northern Corn Special.	" "	" ..	.....
"	5 1849	Great Eastern Potato Manure.	" "	" ..	.....
"	5 1850	Great Eastern General Fertilizer.	" "	" ..	.....
"	5 1851	Great Eastern Grass and Oats Fertilizer.	" "	" ..	.....
"	5 1852	High Grade Superphosphate.	" "	" ..	.....
"	5 1853	Great Eastern Potato Special.	" "	" ..	.....
"	5 1854	Aroostook Complete Manure.	" "	" ..	.....
"	6 1855	'A' Bone Black Fertilizer.	Michigan Carbon Works, Detroit.	" ..	Bone black, mineral phosphates, sulphate of ammonia, acidulated tankage, sulphate or muriate of potash.
"	6 1856	Homestead Potato and Tobacco Fertilizer.	" "	" ..	.....
"	6 1857	Desiccated Bone.	" "	" ..	Produced from pure animal bone.
"	6 1858	Homestead High Grade Garden and Vegetable Fertilizer.	" "	" ..	Bone black, mineral phosphates, sulphate of ammonia, acidulated tankage, sulphate or muriate of potash.
"	6 1859	Gregory's Special High Grade Tobacco Guano.	" "	" ..	Sulphate of ammonia, high grade German potash, animal matter, (blood, bone and tankage) dissolved bone black and superphosphate.
"	6 1860	High Grade Fruit and Vegetable Fertilizer.	" "	" ..	Bone black, mineral phosphates, sulphate of ammonia, acidulated tankage, sulphate or muriate of potash.
"	6 1861	Fruit and Vine Fertilizer.	" "	" ..	" " ..

Samples of Commercial Fertilizers, Registered for 1906—*Continued.*

	RESULTS OF ANALYSIS.										Relative value per ton of 2,000 lbs.	No. of Sample.	Name of Analyst.
	Nitrogen.		Phosphoric Acid.				Potash.	Moisture					
	Total including nitric acid and ammonia.	Total calculated as ammonia.	Soluble in water.	Citric soluble.	Insoluble.	Total.			Total available.				
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	\$ cts.			
Guaranteed contents		2.50					7.00	4.50					
Standard sample....	3.15	3.82	4.47	2.69	2.43	9.59	7.16	4.59	11.80	24.33	1843	A. Lemoine.	
Guaranteed contents		2.50					8.00	4.50					
Standard sample....	2.38	2.89	5.11	2.89	2.23	10.23	8.00	4.84	10.00	22.89	1844	"	
Guaranteed contents		2.50					8.00	1.50					
Standard sample....	2.10	2.55	5.42	3.34	1.15	9.91	8.76	2.80	9.80	20.45	1845	"	
Guaranteed contents						14.00							
Standard sample....				14.52	2.43	16.95	14.52		Trace.	17.67	1846	"	
Guaranteed contents	3.30	4.00	4.00	2.00	1.00	7.00	6.00	10.00					
Standard sample....	3.78	4.59	5.11	3.20	1.15	9.46	8.31	10.67	9.70	33.51	1847	"	
Guaranteed contents	2.06	2.50	5.00	3.00	2.00	10.00	8.00	1.50					
Standard sample. . .	2.66	3.23	5.63	3.97	3.51	13.11	9.60	2.02	13.35	23.22	1848	"	
Guaranteed contents	2.06	2.50	5.00	3.00	2.00	10.00	8.00	3.00					
Standard sample . . .	2.45	2.97	6.90	3.02	3.19	13.11	9.92	3.76	13.90	24.64	1849	"	
Guaranteed contents	0.82	1.00	5.00	3.00	2.00	10.00	8.00	4.00					
Standard sample....	1.12	1.36	6.59	1.72	4.35	12.66	8.31	4.22	11.85	19.11	1850	"	
Guaranteed contents			6.00	5.00	1.00	12.00	11.00	2.00					
Standard sample . .	Trace.	Trace.	6.59	4.61	3.19	14.39	11.20	2.95	14.35	16.87	1851	"	
Guaranteed contents			11.00				14.00						
Standard sample... Trace.	Trace.	Trace.	12.79	0.65	2.23	15.67	13.44	0.50	16.30	17.21	1852	"	
Guaranteed contents	3.30	4.00	6.90	2.00	1.00	9.00	8.00	7.00					
Standard sample....	2.80	3.40	6.00	1.86	2.75	11.51	8.76	7.41	12.75	28.07	1853	"	
Guaranteed contents	2.40	3.00	5.00	1.00	1.00	7.00	6.00	10.00					
Standard sample... Trace.	2.31	2.80	5.63	1.73	2.23	9.59	7.36	10.46	12.15	27.62	1854	"	
Guaranteed contents		2.50					8.00	1.50					
Standard sample....	2.31	2.80	6.71	2.57	2.23	11.51	9.28	1.89	10.55	21.27	1855	"	
Guaranteed contents		2.50					8.00	3.00					
Standard sample . .	2.38	2.89	7.54	2.18	1.79	11.51	9.72	3.65	11.20	23.70	1856	"	
Guaranteed contents		1.50					25.00						
Standard sample....	1.33	1.61		20.15	11.51	31.66	20.15		9.25	30.17	1857	"	
Guaranteed contents		2.50					8.00	6.00					
Standard sample....	2.10	2.55	7.54	0.26	0.43	10.23	7.80	6.48	10.80	23.66	1858	"	
Guaranteed contents		3.00					8.00	4.00					
Standard sample... Trace.	2.59	3.14	7.54	2.39	1.58	11.51	9.93	3.97	12.45	24.90	1859	"	
Guaranteed contents		4.00					8.00	7.00					
Standard sample....	3.36	4.08	7.99	1.48	1.59	11.06	9.47	7.28	11.20	30.37	1860	"	
Guaranteed contents		2.00				12.00		10.00				J. G. A.	
Standard sample....	2.10	2.55	4.67	3.97	6.07	14.71	8.64	12.82	9.35	31.48	1861	Valin.	

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TABULATED STATEMENT of the Results of Analysis of 153 Standard

Date when Received.	No. of Sample.	Designation.	Name of Manufacturer.	By whom Sent.	From what Materials Produced.
1906.					
April 6	1862	Red Line Phosphate.	Michigan Carbon Works, Detroit.	Manufacturers....	Mineral phosphates made available with sulphuric acid.
Mar. 14	1863	Fertilizer 'A.'....	Victoria Chemical Co., Ltd., Victoria, B.C.	" ..	Nitrate of soda, muriate of potash and superphosphate of lime.
" 14	1864	Fertilizer 'B.'	" " ..	" ..	" " ..
" 14	1865	Fertilizer 'C.'	" " ..	" ..	Muriate of potash and superphosphate of lime. WITH M
" 14	1866	Superphosphate of Lime.	" " ..	" ..	Spent bone char with sulphuric acid. WITH
" 14	1867	Nitrate of Soda....	Imported from Chili...	Victoria Chemical Co., Ltd., Victoria, B.C.	.....
" 14	1868	Kainite	Imported from Germany.	" ..	.....
" 14	1869	Sulphate of Potash	" " ..	" ..	.....
" 14	1870	Muriate of Potash.	" " ..	" ..	.....
" 14	1871	Thomas' Phosphate Powder.	" " ..	" ..	.....
" 23	1872	Royal Canadian ..	The Capelton Chemical and Fertilizer Co., Buckingham, Que.	Manufacturers....
" 23	1873	Victor	" " ..	"
" 23	1874	No. 1	" " ..	"
" 23	1875	" " ..	"

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Samples of Commercial Fertilizers, Registered for 1906—*Concluded.*

	RESULTS OF ANALYSIS.										No. of Sample.	Name of Analyst.
	Nitrogen.		Phosphoric Acid.					Potash.	Moisture.	Relative value per ton of 2,000 lbs.		
	Total including nitric acid and ammonia.	Total calculated as ammonia.	Soluble in water.	Citric soluble.	Insoluble.	Total.	Total available.					
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	\$ cts.		
Guaranteed contents	.....	.....	.....	.....	.....	14.00	.....	.....	.....	.....	1862	J. G. A. Valin.
Standard sample ....	.....	.....	11.38	2.37	3.71	17.46	14.29	.....	13.15	17.36		
Guaranteed contents	4.00	.....	.....	.....	.....	10.00	.....	7.00	.....	.....	1863	"
Standard sample....	3.78	4.59	10.50	0.50	0.60	11.60	11.00	6.58	13.10	32.76		
Guaranteed contents	3.05	.....	.....	.....	.....	9.00	.....	11.00	.....	.....	1864	"
Standard sample....	2.94	3.57	10.30	.....	0.62	10.92	10.30	10.35	14.60	32.89		
Guaranteed contents	.....	.....	.....	.....	.....	12.05	.....	11.00	.....	.....	1865	"
Standard sample....	0.34	0.41	13.55	0.02	0.55	14.12	13.57	9.86	9.60	27.45		
Guaranteed contents	.....	.....	.....	.....	.....	16.00	.....	.....	.....	.....	1866	"
Standard sample....	0.28	0.34	17.22	0.86	0.77	18.85	18.08	.....	13.05	22.78		
Guaranteed contents	16.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	1867	A. Lemoine.
Standard sample....	13.86	16.82	.....	.....	.....	.....	.....	.....	1.50	47.12		
Guaranteed contents	.....	.....	.....	.....	.....	.....	.....	12.00	.....	.....	1868	"
Standard sample....	.....	.....	.....	.....	.....	.....	.....	12.36	6.60	12.36		
Guaranteed contents	.....	.....	.....	.....	.....	.....	.....	50.00	.....	.....	1869	"
Standard sample....	.....	.....	.....	.....	.....	.....	.....	46.64	1.60	46.64		
Guaranteed contents	.....	.....	.....	.....	.....	.....	.....	50.00	.....	.....	1870	"
Standard sample....	.....	.....	.....	.....	.....	.....	.....	51.96	2.20	51.96		
Guaranteed contents	.....	.....	.....	.....	.....	16.00	.....	.....	.....	.....	1871	"
Standard sample	Trace.	Trace.	.....	13.43	4.35	17.78	13.43	Trace.	Trace.	16.07		
Guaranteed contents	.....	4.00	.....	.....	.....	9.00	.....	5.00	.....	.....	1872	"
Standard sample....	3.36	4.08	7.54	0.13	4.35	12.02	7.67	5.62	5.90	27.62		
Guaranteed contents	.....	2.00	.....	.....	.....	7.00	.....	3.00	.....	.....	1873	J. G. A. Valin.
Standard sample....	2.00	2.43	7.00	2.13	3.62	12.75	9.13	3.63	12.20	20.85		
Guaranteed contents	.....	.....	.....	.....	.....	14.00	.....	.....	.....	.....	1874	"
Standard sample....	0.35	0.42	7.32	3.01	4.37	14.70	10.33	.....	12.20	14.59		
Guaranteed contents	.....	.....	.....	.....	.....	8.00	.....	.....	.....	.....	1875	"
Standard sample....	0.11	0.13	4.80	4.08	4.67	13.55	8.88	.....	9.45	12.01		

APPENDIX N.

BULLETIN No. 119.—FRUIT PRESERVES.

OTTAWA, June 7, 1906.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I have the honour to enclose herewith a report by Mr. A. McGill, Assistant Analyst to the Chief Analyst, concerning the last collection of fruit preserves, and also a tabulated statement giving the results of examining 190 samples of these and Mr. McGill's remarks on each. In this statement I have found myself obliged to insert a column containing the conclusions I have reached regarding the various samples and especially those marked by Mr. McGill as 'not analysed.' There was of course nothing to be gained by examining these, their adulteration having been declared by the use of the word 'compound' or 'mixture' on the labels. In many cases, however, this declaration was not made in the manner required by the Adulteration Act, which states that food shall be deemed to be adulterated within the meaning of the Act 'if any inferior or cheaper substance has been substituted, wholly or in part for the article,' provided that this definition shall not apply 'if any articles of food not injurious to the health of the person consuming them are mixed together and sold, or offered for sale, as a compound, and if each package, roll, parcel or vessel containing such articles is distinctly labelled as a mixture in *conspicuous characters* forming an inseparable part of the general label, which shall also bear the name and address of the manufacturer.'

In applying this clause for the purpose of ascertaining whether any sample of these fruit preserves was adulterated 'according to the Act,' I have not used that term in reference to any sample upon which the word 'compound' or 'mixture' was to be found in close proximity to the name of the article, in distinct, although smaller characters, and forming part of the original label. On the other hand where the words referred to have been, subsequently to the printing, stencilled on the label inconspicuously in small and indistinct letters, or disconnected entirely from the name of the article, I have judged it reasonable to characterise the sample as 'adulterated according to the Act.' With reference to the genuine samples in which Mr. McGill found none or only traces of glucose, I have adhered to his findings. As regards the samples which he has classified as 'probably adulterated under the Act with recommendation to leniency in some cases, I have been obliged to discriminate between those which showed some or a little glucose, which I have marked 'doubtful,' and to look upon those samples, regarding which there is no declaration, and which contain much glucose or dextrine as 'adulterated.'

This plan leads to the following classification :—

	No. of Samples.
Unadulterated	53
Doubtful	17
Adulterated according to Act	67
Adulteration declared	30
Adulterated	15
Collected by mistake	8
Total	190

I have the honour to be, sir,
Your obedient servant,

THOMAS MACFARLANE.
Chief Analyst.

SESSIONAL PAPER No. 14

LABORATORY OF THE INLAND REVENUE DEPARTMENT,
317 QUEEN STREET, OTTAWA, June 4, 1906.

THOMAS MACFARLANE Esq., F.R.S.C., &c.,
Chief Analyst.

SIR,—I beg to submit herewith the results of examining 190 samples collected as preserves (jams, jellies and marmalades) in November and December of last year and in January and February of the present year.

Eight (8) of the samples above referred to do not answer to the description of preserves : seven (7) of them being gelatine, jelly blocks or powders and one being a so called ‘canned’ fruit.

According to inspectoral districts, the collection is as below :—

Districts.	Samples Collected.	Preserves.
Nova Scotia.....	14	14
New Brunswick.....	14	14
Prince Edward Island.....	12	12
Quebec.....	20	19
St. Hyacinthe.....	14	8
Montreal.....	24	24
Ottawa.....	20	20
Kingston.....	20	20
London.....	21	20
Manitoba.....	9	9
Calgary.....	6	6
British Columbia.....	16	16
	190	182

Of 182 samples answering to the description of a preserve, ninety-seven (97) samples are marked ‘compound’ with more or less distinctness. Only 17 of this number have been analysed. The remaining samples (eighty-five in number) claim to be genuine or are sold without any statement to the contrary. Fifty-three of these have been found to be genuine ; leaving a balance of thirty-two (32) samples regarding which the question of adulteration may be raised.

My examination of these samples has had regard to the following points :—

- 1. Quantity and quality of fruit used.
- 2. Quantity and kind of sugar (including a determination of the presence or absence of glucose).
- 3. Preservatives.
- 4. Artificial dyes.

As regards preservatives and dyes I have contented myself with ascertaining the presence or absence of these without comment. We have no regulations which forbid their use, and it is quite probable that, so far as dyes are concerned, the minute quantities present are not more harmful to health than they would be in candy-colouring. The chief objection that I find to the use of dyes in jams and jellies, is the fact that they serve to cover up defects in fruit, and thus permit the employment of inferior fruit in manufacture. It is also evident that the making of a so-called strawberry or raspberry jam from apple pulp, is only possible when the colour is given by a dye.

With regard to the quantity of fruit present in a jam, we have no standards which enable interpretation to be made from the amount of insoluble residue, nor is any ratio between fruit and sugar established by law. Until this is done, it is evident that exact determination of insoluble matters (cellulose, &c.) affords no useful datum in analysis, and I have not carried out this research in many of the samples reported.

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I would respectfully recommend that this very important subject be made matter of investigation during the coming fruit season. Since raspberry and strawberry jams are those most largely sold, I would suggest that methods of research be carried out in these ; having regard to the degree of accuracy attainable in determining the amount of fruit used, from the amount of insoluble tissue found in the jam.

The Department of Agriculture at Washington, D.C., has recently (March, 1906) adopted a ratio of not less than forty-five (45) pounds of fruit for fifty-five (55) pounds of sugar. Whether or not this standard would suit Canada is matter for investigation, and it remains to be seen what degree of accuracy can be attained in determining the ratio. Messrs. Tolman and Munson (Bull. 66, Bureau of Chemistry, Washington) have done some valuable research work in this regard, but there is need of a great deal more research work before a reliable method of procedure can be outlined.

I may merely add that when no remark is made concerning the fruit found in jams of the present collection, it is to be understood that, so far as regards quantity and quality, nothing calling for special notice has been found. In a few cases the fruit has been so abnormally small in amount, that I have thought it right to call attention to the fact. It is usually in glucose jams that this paucity of fruit tissue is found ; the consistency of the finished product is in this case due chiefly to the viscous character of the glucose, while in a genuine jam, the fruit pulp plays an important part in giving normal consistency to the jam.

It will be evident from what I have said, that for the present, the decision of the genuineness in a jam rests mainly upon the absence of glucose. In a few cases (eight samples) I have found traces only of dextrine, and a polarimeter number indicating certainly less than ten (10) per cent of glucose, and probably less than five per cent. It is claimed by some manufacturers that the addition of a small quantity of glucose is desirable in order to prevent the crystallizing of the cane sugar on prolonged keeping. Without committing myself to an opinion on the matter, I have thought it justifiable to include these cases among the samples classified as genuine, but this is done without prejudice to future findings, and is, of course, subject to your own revision.

In the remaining thirty-two (32) samples, glucose is present in so large quantity as to make it necessary to pronounce them adulterated within the meaning of the Act, since the presence of glucose is not acknowledged on the label.

It is, however, only fair to say that many of these samples bear evidence of having been taken from very old stock, the labels being fly-specked, discoloured or otherwise marked as *shop-worn*. Later samples, by the same makers, are stencilled with the word 'compound,' and it is fair to conclude that, at least in some instances, the samples in question are to be looked upon as *old sales*, which had escaped proper marking rather than as uttered with any fraudulent intent. To what extent this consideration may affect the decision of the Department regarding the vendors is another matter, but I think it only right that I should point out the facts.

I have the honour to be, sir,
Your obedient servant,

A. MCGILL.

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(Addendum.)

SYNOPSIS

Jelly powders (collected by mistake).....	7	
Canned fruit " "	1	
	—	8
Sold as compound—analysed	17	
" " not analysed	80	
	—	97
Genuine—no glucose	45	
" trace "	8	
	—	53
Probably adulterated under the Act with recommendation to leniency in some cases	32	
	—	190

I think it may be well at some future time to make a special collection of gelatine jelly powders and things of that sort. These are very largely sold and quite a number of manufacturers are represented in the Canadian market. Investigatory work will be needed to define a method of work and to discover how far we can hope to get any valuable information concerning their composition.

A. MCGILL.

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TABULATED STATEMENT REGARDING

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.
1905.			<i>District of Nova Scotia—R. J. Waugh, Insp.</i>	Cts.		
Dec.	1 Plum Jam. . .	27101	J. Frank Crowe & Co., Halifax, N.S.	3 jars 45	Badger & Co., London, Eng.	Labelled pure plum jam. Vendor is a wholesale dealer.
"	1 Raspberry Jam .	27102	Bauld Bros. & Co., Halifax, N.S.	3 " 45	Chivers & Son, Heston, Eng.	Labelled improved with a small proportion of fruit jelly. Wholesale dealers.
"	1 " . .	27103	John Tobin & Co., Halifax, N.S.	3 " 50	Sherriff, Toronto, Canada.	Labelled absolutely pure. The vendors are wholesale dealers.
"	1 Plum Jam. . .	27104	H. W. Wentzell & Co., Halifax, N.S.	3 " 30	Simcoe Canning Co., Simcoe, Ont.	Labelled pure Simcoe jam. Compound in small letters. Wholesale dealers.
"	1 "	27105	Payzant & King, Halifax, N.S.	3 " 30	T. Upton, Hamilton, Ont.	Labelled fine quality. Wholesale dealers.
"	1 Strawberry Jam.	27106	C. H. Harvey, Halifax, N.S.	3 " 25	Simcoe Canning Co., Simcoe, Ont.	Labelled same as 27104. Wholesale dealer.
"	4 Red Currant Jelly.	27107	R. B. Sutton & Co., Halifax, N.S.	3 " 25	J. W. Windsor, Montreal.	Sold as Ice Castle Brand. Wholesale dealer.
"	4 Strawberry Jam.	27108	Billmon & Chisholm, Halifax, N.S.	3 " 15	Simcoe Canning Co., Simcoe, Ont.	Labelled same as 27104. Sample drawn from 7-lb. pail. Wholesale dealers.
"	Raspberry Jam Preserves.	27109	A. W. Smith & Co., Halifax, N.S.	3 " 45	E. D. Smith, fruit farms, Winona, Ont.	The vendors are wholesale dealers.
"	5 Peach Jelly. . . .	27110	Lovitt & Lovitt, Yarmouth, N.S.	3 " 25	Simcoe Canning Co., Simcoe, Ont.	Labelled same as 27104.
"	5 Plum Jam	27111	" " . .	3 " 20	J. W. Windsor, Montreal.	Sold as pure fruit jam. Coronation Brand. Vendors are wholesale dealers.
"	5 Raspberry Jam..	27112	Wm. Law & Co., Yarmouth.	3 " 15	Simcoe Canning Co., Simcoe, Ont.	Labelled same as 27104. Drawn from 7-lb. pail. Wholesale dealers.
"	8 "	2711	Black & Co., Truro, N.S.	3 " 21	J. W. Windsor, Montreal.	Coronation Brand. Wholesale dealers.

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190 SAMPLES OF FRUIT PRESERVES.

Chief Analyst's Remarks.	RESULTS OF ANALYSIS.										Remarks by Mr. McGill.
	Insoluble solids.	Dissolved solids.	SACCHARIMETER— NORMAL WEIHT TO 100cc.			Residual cane sugar— (Clerget.)	Soluble matter, other than cane sugar.	Dextrine.	Preservatives.	Dyes.	
			Direct.	Invert.	Difference.						
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
Doubtful	5.74	69.70	+26.9	- 2.6	29.5	22.2	47.50	Trace	Salicylic acid.	None...	Contains a little glucose and a preservative.
"	8.33	65.34	+29.4	- 2.5	31.9	24.0	41.34	"	None	" . . .	Contains a little glucose.
Unadulterated	4.27	68.86	+ 0.0	-22.4	22.4	19.6	49.26	None.	Benzoic acid.	" . . .	Genuine but contains a preservative.
Adulterated according to Act.	6.48	55.22	+87.1	+84.3	2.8	2.1	53.12	Much	"	Present.	Contains glucose, a preservative and is dyed, but marked compound.
Doubtful	1.53	72.72	+46.9	+21.2	25.7	18.4	54.32	Some.	None	None...	Contains glucose.
Adulterated according to Act.		56.72	+70.0	+54.2	15.8	11.9	44.82	Much	Benzoic acid.	Present.	The word 'compound' in small letters. Contains glucose, a preservative and is dyed.
Adulteration declared.		66.22	+101.1	+79.3	21.8	14.9	51.32	"	None	None...	Contains glucose but is marked compound.
"	2.83	69.62	+86.6	+85.9	0.7	0.5	69.12	"	"	Present.	Contains glucose and is dyed, but marked compound.
Unadulterated	3.46	64.44	+30.6	-20.8	51.4	45.8	18.64	None.	"	None...	Genuine
Adulterated according to Act.		61.80	+73.5	+44.0	29.5	22.2	39.60	Much	"	Present.	Contains glucose and is dyed, but marked compound.
Doubtful	3.73	64.62	+95.9	+80.8	15.1	11.4	53.22	Present.	"	None...	Contains glucose.
Adulterated according to Act.	2.84	61.10	+81.4	+63.7	17.7	13.1	48.00	Much	"	Present.	Contains glucose and is dyed. Is marked compound.
Adulterated	2.10	68.40	+89.2	+72.6	16.6	12.3	56.10	"	Salicylic acid.	None...	Contains glucose and a preservative

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TABULATED STATEMENT REGARDING

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.
1905.			<i>District of Nova Scotia—Concluded.</i>	Cts.		
Dec. 12	Plum Jam.	27122	R. J. Sweet & Co., Halifax, N.S.	3 jars 25	Simcoe Canning Co., Simcoe, Ont.	Labelled same as 27104. Vendors are wholesale dealers.
			<i>District of New Brunswick—J. C. Ferguson, Insp.</i>			
Nov. 27	Jam, Strawberry	24113	Baird & Peters, Ward St., St. John, N.B.	3 " 45	The Simcoe Canning Co., Simcoe, Ont.	Pure Simcoe jam on label. Compound across Simcoe.
" 28	" Raspberry.	24114	Bowman & Cole, 23-30 Water St., St. John, N.B.	3 " 75	Pure Gold Manufacturing Co., Toronto, Ont.	Pure Gold on label. Absolute purity printed above and beneath Pure Gold.
" 28	" Plum. ...	24115	Hall & Fairweather, 7-9 Ward St., St. John, N.B.	3 " 25	The McCormick Manufacturing Co., London, Canada.	On label: Pure fruit; compound.
" 28	" Apricot...	24116	G. E. Barbour Co., Ltd., 11-12 North Wharf, St. John, N.B.	3 " 25	Thos. Upton Co., Hamilton, Ont.	Upton's Apricot Jam printed on label. Vendor would not say goods were pure.
" 30	" Peach.	24117	E. E. McMichael, 40 Dock St., St. John, N.B.	3 " 30	Canada Preserving Co., Ltd., Hamilton, Ont.	Trade mark registered. 'Graham's Lily Brand.' Prepared by Canada Preserving Co. Compound.
Dec. 1	" Black Currant.	24122	W. S. Clawson & Co., manufacturers' agents and brokers, 11-12 South Wharf, St. John, N.B.	3 " 25	J. W. Windsor, Montreal, Que.	'Ice Castle Brand.' Choice jams and jellies. Compound.
" 8	Jelly, Plum.	24131	F. E. Williams & Co., Ltd., 80 Princess & Charlotte Sts., wholesale and retail, St. John, N.B.	3 " 30	H. Goodwillie & Son, Welland, Ont.	On label: Home Industry, Plum Jelly. Grown and packed by H. Goodwillie & Son, Welland, Ont.
" 8	Jam, Apricot...	24132	J. & F. Watson, Main St., cor. of Elm, north end, retail grocers, St. John, N.B.	3 " 45	Aylmer Canning Co., Aylmer, Ont.	On label: Canada First, Apricot Jam. Preserved by Aylmer Canning Co., Aylmer, Ont. Marked compound. Sold as compound.
" 4	Jelly, Quince. ...	24125	W. A. Simonds, 89 Union St., vendor, manufacturers' agent for N.B., St. John, N.B.	3 " 75	E. D. Smith, Winona, Ont.	On label: Quince Jelly. To avoid deception be sure the trade-mark seal on lid is unbroken. E. D. S. trade mark. Fruit Farms, Winona, Ontario, Canada.

SESSIONAL PAPER No. 14

190 SAMPLES OF FRUIT PRESERVES—Continued.

Chief Analyst's Remarks.	RESULTS OF ANALYSIS.										Remarks by Mr. McGill.
	Insoluble solids.	Dissolved solids.	SACCHARIMETER— NORMAL WEIGHT TO 100CC.			Residual cane sugar— (Clerget.)	Soluble matter, other than cane sugar.	Dextrine.	Preservatives.	Dyes.	
			Direct.	Invert.	Difference.						
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
Adulterated according to Act.	11·60	57·14	+76·6	+57·4	19·2	14·2	42·94	Much	Benzoic acid.	Present.	Contains glucose and a preservative, and is dyed. Is marked compound.
"	The word 'compound' is on the label but in very small letters and indistinct from being placed over the word 'Simcoe.'										Not analysed.
Unadulterated	...	56·60	+ 6·0	-18·9	24·9	18·0	37·60	None.	Benzoic acid.	Present.	Genuine but contains a preservative.
Adulterated according to Act.	Marked 'pure fruit, compound' in small letters										Not analysed.
Adulterated	...	67·08	+69·3	+47·4	21·9	19·4	47·68	Much	Benzoic acid.	None...	Contains glucose and a preservative.
Adulteration declared.	The word 'compound' is marked twice on the label in letters as conspicuous as the words peach jam.										Not analysed.
Adulterated according to Act.	Marked compound, but very inconspicuously with stencil, on the edge across one end of the label.										"
Doubtful	...	63·56	+38·5	+35·0	3·5	2·6	60·96	Pre-sent.	Salicylic acid.	Present.	Contains glucose and a preservative, and is dyed.
Adulterated according to Act.	Stencilled with the word compound but in very small letters.										Not analysed.
Unadulterated	...	66·00	+23·6	-21·2	44·8	33·4	32·60	None.	None.	None...	Genuine.

6-7 EDWARD VII., A. 1907

TABULATED STATEMENT REGARDING

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.
1905.			<i>District of New Brunswick—</i> Concluded.	Cts.		
Dec. 13	Jam, Plum..	24135	Gross & Dawson, Main St., Moncton, N.B.	3 jars 45	Quebec Preserving Co., 35 Smith St., Ls. Letourneau, prop., Quebec, Que.	Vendor would not sell as pure. Selling agent said goods were pure. Vendor wished to know if such were the case. From label: Plum, Quebec Preserving Co. Gold Medal. Jams and Jellies. Ls. Letourneau, prop., 35 Smith St., Quebec.
" 19	Jelly, Apple ..	24137	Dykeman & Vawart, Queen St., Fredericton, N.B.	3 " 30	Mrs. W. G. Dykeman, Fredericton, York Co., N.B.	No label on tumblers. Put up by Mrs. W. G. Dykeman, Fredericton, N.B.
" 19	Jam, Strawberry	24138	A. F. Randolph & Sons, Phoenix Square, wholesale merchants, Fredericton, N.B.	3 " 25	Consolidated Canners' Co., Hamilton, Ont.	Aylmer Jam. Canada First. Canada. Aylmer Canning Co. Strawberry. Pure Fruit. Compound. From label on jars.
" 19	" "	24139	H. C. Jewett, grocer, Regent St., Fredericton, N.B.	3 " 30	J. W. Windsor, Montreal, P.Q., Canada.	From label: Strawberry Jam. Ice Castle Brand. Choice jams and jellies. Prepared by J. W. Windsor, Montreal. Compound.
" 19	Jam, Raspberry.	24140	James P. Hayes, grocer, St. Mary's, York Co., N.B.	3 " 39	Aylmer Canning Co., Aylmer, Ontario, Canada...	From label on packages: Canada First. Red Raspberry Jam. Preserved by Aylmer Canning Co. Factories at Aylmer and Hamilton. Aylmer, Ont. Compound.
			<i>District of Prince Edward Island—</i> T. Moore, Inspector.			
Dec. 5	Plum Jam....	28239	A. Currie & Co., Souris.	3 cr'ks. 45	Aylmer Canning Co., Aylmer, Ont	Canada First. Preserved by Aylmer Canning Co., Aylmer, Ont.
" 5	Raspberry Jelly.	28240	John McLean & Co., Souris.	3 " 36	J. W. Windsor & Co., Montreal.	Ice Castle Brand. Choice jams and jellies. Marked compound.
" 5	Orange Marmalade.	28241	" "	3 " 48	Thomas Upton & Co., Hamilton, Ont.	Prepared by Thomas Upton & Co.

SESSIONAL PAPER No. 14

190 SAMPLES OF FRUIT PRESERVES—Continued.

Chief Analyst's Remarks.	RESULTS OF ANALYSIS.										Remarks by Mr. McGill.
	Insoluble solids.	Dissolved solids.	SACCHARIMETER— NORMAL WEIGHT TO 100CC.			Residual cane sugar— (Clerget.)	Soluble matter, other than cane sugar.	Dextrine.	Preservatives.	Dyes.	
			Direct.	Invert.	Difference.						
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
Adulterated ..	4.89	...	+34.1	+23.1	11.0	8.2	....	Much	None.	Present.	Contains glu- cose and a dye.
Unadulterated	....	.....	+ 7.0	-19.6	26.6	20.0	.....	None.	....	None..	Genuine.
Adulterated according to Act.	Marked 'pure fruit, compound' in very small letters.....										Not analysed.
" "	0.65	68.54	+92.4	+77.8	14.6	10.9	57.64	Pre-sent.	None....	None...	Contains glu- cose but marked com- pound: (Let- tersstencilled very small and scarcely legible.T.M.)
" "	Marked 'compound' but in very small letters; scarcely legible.....										Not analysed.
Doubtful.	56.98	+42.0	+22.4	19.6	14.4	42.58	Pre-sent.	Benzoic acid.	None...		Contains glu- cose and a preservative.
Adulterated according to Act.	Marked 'compound' inconspicuously and with a stencil.....										Not analysed.
Doubtful.	65.62	+56.0	+39.0	17.0	12.8	52.82	Pre-sent.	None....	None...		Contains glu- cose.

6-7 EDWARD VII., A. 1907

TABULATED STATEMENT REGARDING

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.
1905.			District of Prince Edward Island— Concluded.	Cts.		
Dec. 5	Strawberry Jam.	28242	Sterns Brothers, Souris.	3 cr'ks 36	Upton... ..	Upton's Strawberry Jam.
" 5	Plum Jam.....	28245	C. C. Carlton, Souris.	3 " 45	Standard Canning Co., Hamilton, Ont.	Pure fruit ; compound.
" 5	Strawberry Jelly	28246	John McLean & Co., Souris.	3 " 36	J. W. Windsor, Montreal.	Ice Castle Brand. Choice jams and jellies. Compound.
" 5	Black Currant Jelly.	28247	Jenkins & Son, Charlottetown.	3 " 45	H. Goodwillie & Sons, Welland, Ont.	.....
" 5	Strawberry Jam.	28248	Beer & Goff, Charlottetown.	5 " 54	A. E. Dewar, Newlands Fruit Farm, Charlottetown.	Warranted pure by A. E. Dewar.
" 5	Red Currant Jelly	28249	Beer & Goff, Charlottetown.	3 " 60	R. F. Maddigan & Co., Charlottetown.	Pure jams and jellies. Manufact'd. by R. F. Maddigan.
" 5	Red Currant Jam	28250	James Kelly " "	3 " 36	" " "	Pure jams and jellies.
" 7	Strawberry Jam.	28251	J. P. Duffey " "	3 " 54	E. D. Smith, Winona, Ont.	To avoid deception. E. D. Smith's Farm, Winona, Ont.
" 7	Apple Jelly.....	28261	A. Gates & Co. " "	1 pkg. 50	E. Bayfield, Charlottetown.	.....
			District of Quebec— C. E. Roy, Inspector.			
Nov. 22	Strawberry Jelly	29044	Quebec Preserving Co.	3 lbs. 21	Ls. Letourneau, Quebec.	Marked 'Gärdner' Brand, Erie, Ont. Taken from a bucket of 50 lbs. Marked on label compound.
" 22	Apple Jelly.....	29045	" " "	3 " 18	" " "	Marked 'Red Rose' Brand. Taken from a bucket of 50 lbs. Marked compound.
" 23	Strawberry Jam.	29046	" " "	3 " 25	" " "	Taken from a large bucket or tub about 80lbs. Manufactured on the date I was at the factory to be packed, with label same as on sample. 'Quebec Preserving Co.'
	23 Plum Jam	29047	" " "	6 " 30	" " "	Marked compound....
	27 Peach Jam.....	29049	Bowen & Grenier, Quebec.	1 jar 25	St. Louis Preserving Co., Montreal.	" " "

SESSIONAL PAPER No. 14

190 SAMPLES OF FRUIT PRESERVES—Continued.

RESULTS OF ANALYSIS.											
Chief Analyst's Remarks.	Insoluble solids.	Dissolved solids.	SACCHARIMETER—NORMAL WEIGHT TO 100CC.			Residual cane sugar—(Clerget.)	Soluble matter, other than cane sugar.	Dextrine.	Preservatives.	Dyes.	Remarks by Mr. McGill.
			Direct.	Invert.	Difference.						
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
Adulterated	.....	63·64	+43·9	+25·6	18·3	13·6	50·04	Much	None....	Present.	Contains glu- cose and is dyed.
Adultera tion declared.	Marked 'compound' in letters about one-third of the size of those used for the name of the article but distinct.										Not worked.
Adultera ted according to Act.	Marked 'compound' inconspicuously with stencil across the label at the edge.										"
Unadulterated	.....	68·66	-16·1	-17·2	1·1	0·8	67·86	None.	Benzoic acid.	None...	Genuine but contains a preservative.
" ..	4·97	.....	-10·9	-16·6	5·7	4·2	.....	"	None....	" ..	Genuine.
" ..	.....	61·40	-15·1	-18·9	3·8	2·8	58·60	"	"	" ..	"
" ..	.....	61·74	-14·0	-17·5	3·5	2·7	59·04	"	"	" ..	"
" ..	.....	63·04	+21·7	-21·2	42·9	32·0	31·04	"	" ...	" ..	"
" ..	...	51·32	+ 5·8	-17·3	23·1	17·2	34·12	"	"	" ..	"
Adultera tion declared.	Marked 'compound' in very small letters but under name of article and plain.										Not analysed.
Adultera ted according to Act.	Stencilled 'compound' in small letters, placed upside down in lower right hand corner of label.										"
Unadulterated	.....	67·20	+ 5·1	-17·2	12·1	9·0	58·20	None.	Benzoic acid.	None.	Genuine.
Adultera ted according to Act.	Stencilled 'compound' but inconspicuously and not near the name of the article.										Not analysed.
Adultera tion declared.	.....	61·98	+100·8	+87·7	13·1	9·8	52·18	Much	Salicylic acid.	None.	Contains glu- cose and a preservative, but marked compound.

6-7 EDWARD VII., A. 1907

TABULATED STATEMENT REGARDING

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.
1905.			District of Quebec —Concluded.	Cts.		
Nov. 27	Strawberry Jam.	29050	Whitehead & Turner, Quebec.	7 lbs. 48	Aylmer Canning, Co., Aylmer.	Canada First.' Compound.
" 28	" "	29051	T. Davidson & Co., Quebec.	3 pots 37	The Upton Co., Ltd., Hamilton.	
" 28	Strawberry Jelly	29052	J. B. E. Letellier, Quebec.	3 " 30	T. A. Lytle & Co., Toronto.	
" 30	Raspberry Jam.	29057	Turcotte et frère, Quebec.	3 pots 30	The McCormick Manufacturing Co., London.	Sold as 'pure fruit compound.'
" 30	Currant Jelly...	29058	A. Joseph & Son, Quebec.	3 " 48	E. D. Smith, Winona, Ont.	
Dec. 5	Plum Jam.....	29059	Brunelle et frère, Three Rivers.	3 " 45	L. Chaput et fils, Montreal.	Sold as 'Little Cheap Brand.'
" 5	Strawberry Jam	29060	Bellefeuille & Giroux, Three Rivers.	3 " 30	J. A. Perrault, Montreal.	Sold as 'compound.'
" 5	Raspberry Jam.	29062	O'Carrigan et fils, Three R'vrs	3 " 30	Hudon & Orsali, Montreal.	Sold as 'pure fruit; compound.'
" 7	" " ..	29063	J. Buchanan & Son, Lévis.	3 boxes 45	Barbeau & Paré, Quebec.	Sold as 'compound.'
" 7	" " ..	29065	A. Carrier et fils, Lévis.	3 pots 63	Quebec Preserving Co., Quebec.	
" 14	Strawberry Jam	29067	Barbeau & Paré, Quebec.	3 jars 25	Jos. Lamoureux, Montreal.	
" 16	" " ..	29070	A. A. Cantin, Quebec.	3 " 45	Bedard et frère, Quebec.	
1906.						
Jan. 31	" " ..	29072	Le Droit et frère, Quebec.	3 " 90	Purchased from Boivin & Grenier, Quebec.	Manfg. by St. Louis Preserving Co., Montreal. Marked compound.
Feb. 1	Raspberry Jam.	29073	Quebec Fruit Exchange, Quebec.	4 lbs. 32	Quebec Preserving Co., Quebec.	Taken from 4 lb. tin tub.
" 1	Strawberry Jam	29074	J. B. Bedard, Quebec.	3 jars 25	Jos. Lamoureux, Montreal.	Marked compound.

SESSIONAL PAPER No. 14

190 SAMPLES OF FRUIT PRESERVES—Continued.

Chief Analyst's Remarks.	RESULTS OF ANALYSIS.										Remarks by Mr. McGill.
	Insoluble solids.	Dissolved solids.	SACCHARIMETER— NORMAL WEIGHT TO 100CC.			Residual cane sugar— (Clerget.)	Soluble matter, other than cane sugar.	Dextrine.	Preservatives.	Dyes.	
			Direct.	Invert.	Difference.						
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
Adulteration declared.	.....	57·16	+38·5	+26·3	12·2	9·1	48·06	Much	Benzoic acid.	Present.	Contains glucose and a preservative, but marked compound. Apple tissue.
Unadulterated	.....	61·20	+14·5	18·9	33·4	24·9	36·30	Trace.	"	None...	Genuine but contains a preservative.
"	.....	59·24	+ 9·6	- 8·9	18·5	13·8	45·44	None.	None.....	"	Genuine but contains a little glucose.
Adulterated according to Act.	Stencilled 'pure fruit, compound' in small letters										Not analysed.
Unadulterated	.....	68·60	+7·7	-21·3	29·0	21·6	47·00	None.	None.....	None...	Genuine.
.....	Should not have been collected.										Not worked as it is 'canned fruit' and not a preserve. Is in sound condition.
Adulterated according to Act.	Stencilled 'compound' in small letters across label.										Not analysed.
"	Marked 'pure fruit, compound.'										" "
Adulteration declared.	Marked 'compound' distinctly but not near the name of the article.										" "
Doubtful.	.....	65·00	+49·7	+19·9	29·8	22·2	42·80	Pre- sent.	None.....	None...	Contains glucose.
Adulterated.	3·76	67·10	+115·5	+100·1	15·4	11·5	55·60	Much	"	Present.	Contains glucose and is dyed.
"	8·12	67·56	+69·7	+33·1	36·6	27·3	40·26	"	"	None...	Contains glucose.
Adulteration declared.	Marked 'compound' in small letters but distinct.										Not analysed.
Adulterated.	4·87	61·74	+96·9	+90·1	6·8	5·1	56·64	Much	Benzoic acid.	Present.	Contains glucose and a preservative, and is dyed.
Adulteration declared.	5·49	56·26	+71·9	+42·3	29·6	22·2	34·06	Pre- sent.	None.....	"	Contains glucose and is dyed but sold as a compound.

6-7 EDWARD VII., A. 1907

TABULATED STATEMENT REGARDING

Date of Collection.	Nature of Sample.	No. of Samples.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.
1905.			District of St. Hyacinthe—J. C. Rouleau, In- specteur.			
Dec. 5	Plum Jam, 'Ice Castle Brand.'	27581	N. Lord, St. Jean, Quebec.	3 jars 30	L. Chaput et fils, Montreal, Mfg. by J. W. Wind- sor, Montreal.	Marked compound on right-hand side of label.
" 5	Strawberry Jelly, 'Pure Gold'	27582	T. A. Bourque et Cie, Sherbrooke.	3 pkgs 30	Pure Gold Mfg. Co., Toronto.	.....
" 5	Strawberry Jam, 'Canada First'	27583	Gendron, Denault et Cie, Sher- brooke.	3 jars 25	Aylmer Canning Co., Aylmer, Ont.	Label marked com- pound.
" 5	Strawberry Jam.	27584	Gendron, Denault et Cie, Sher- brooke.	3 " 25	Jos. Lamoureux, Montreal.	Label marked com- pound.
" 5	PineAppleJelly, 'Pure Gold'	27585	Paul Tourigny, Victoriaville.	3 pkgs 25	Pure Gold Mfg. Co., Toronto.	.....
" 5	Vanilla Jelly, 'Nonpariel'	27586	J. A. Savoie, Ples- sisville.	2 " 20	Badger & Co., London, Eng.	.....
" 5	Peach Jam.....	27587	L. T. Trempe, Sorel.	3 jars 30	J. A. Penault, Montreal.	Sold as compound.....
" 13	Plum Jam, 'Ice Castle Brand'.	27588	Guertin & Archam- bault, Actonvale	3glas's 30	L. Chaput, fils et Cie, Montreal.	See note attached to report.
" 13	Peach Jam.....	27589	A. Berthiaume, Upton.	3 " 30	Jos. Lamoureux, Montreal.	.....
" 13	Black Currant Jelly, 'Uptons'	27590	L. Z. Phaneuf, Up- ton.	3 " 30	Lacaille, Gen- dreaux & Co., Montreal.	.....
" 13	Chocolate Jelly.	27591	A. C. Gilmour, Waterloo, Que..	3 pkgs 30	Pure Gold Manfg. Co., Toronto.	.....
" 13	Lemon Jelly, 'Red Cross'	27592	W. D. Bradford, Granby.	3 " 30	R. Herron & Co., Montreal.	.....
" 13	Peach Jam, 'Queen City.'	27593	Monty Frères, Granby.	3 " 30	The Toronto Jam & Pickle Co., Toronto.	.....
" 13	Cognac Jelly, 'Kkovoh'	27594	N. Prefontaine, Marieville.	2 " 20	Sutcliffe & Bing- ham, Ltd., Man- chester.	.....
			District of Montreal—J. J. Couture, Insp.			
Nov. 24	Plumb Jam.	26842	Jos. Lamoureux & Co., St. Timothée St., Montreal.	1 crock 35	.....	This sample taken at factory of vendor. Put up in 7 lb. crocks. Labelled pure jam in letters about two inches long, beneath this wording is the word compound in stencil; the letters being about $\frac{1}{16}$ in. long. Copy of label is herewith attached.

SESSIONAL PAPER No. 14
190 SAMPLES OF FRUIT PRESERVES—Continued.

Chief Analyst's Remarks.	RESULTS OF ANALYSIS.										Remarks by Mr. McGill.
	Insoluble solids.	Dissolved solids.	SACCHARIMETER— NORMAL WEIGHT TO 100cc.			Residual cane sugar— (Cl'erget.)	Soluble matter, other than cane sugar.	Dextrine.	Preservatives.	Dyes.	
			Direct.	Invert.	Difference.						
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
Adulterated according to Act.	Stencilled 'compound' but in small letters at edge of label.										Not analysed.
.....	Collected by mistake.....										Not worked as not being a preserve.
"	Stencilled 'compound' but inconspicuously.. . . .										Not analysed.
Adulteration declared.	.....										" "
.....	Collected by mistake.....										Not worked as not being a preserve.
.....	" "										" "
Adulterated according to Act.	Marked 'compound' but in very small letters.....										Not analysed.
Adulterated..	.....	.....	+75·8	+63·0	12·8	9·5	.....	Much	Salicylic acid.	Trace.	Contains glucose and a preservative.
Doubtful. ....	.....	48·00	+38·5	+32·2	6·3	4·7	43·30	P r e - sent.	None...	None...	Contains glucose.
Unadulterated	.....	63·44	+28·9	+5·4	23·5	17·9	45·54	None.	Doubtful.	.....	" "
.....	Collected by mistake.....										Not worked as not being a preserve.
.....	" "										" "
Adulterated.	.....	59·32	+105·9	+84·7	21·2	15·8	43·52	Much	None.....	None...	Contains glucose.
.....	Collected by mistake.. . . .										Not worked as not being a preserve.
Adulterated according to Act.	.....	65·32	+98·0	+90·5	7·5	5·6	59·72	Much	N	.....	Present. Contains glucose and is dyed, marked compound (but inconspicuously T.M.)

6-7 EDWARD VII., A. 1907

TABULATED STATEMENT REGARDING

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.
1905.			District of Montreal—Continued.	Cts.		
Nov. 24	Peach Jam.....	26843	Jos. Lamoureux & Co., St. Timothée St., Montreal.	3 jars 38		Manufactured by vendor and collected at factory. Labelled 'Kings' Brand. On side of label in small characters is stencilled the word compound.
" 24	Rasperry Jam.	26844	J. W. Windsor, 440 Visitation St., Montreal.	3 " 25		'Ice Castle' Brand, manufactured by vendor and taken at factory. Word compound stencilled on side of label. Copy of label attached.
" 24	Strawberry Jam.	26845	" " ..	3 " 25		" " ..
" 24	Raspberry Jam.	26846	J. A. Perrault et Cie., 40 Plessis St., Montreal.	3 " 25		Put up in tumblers. Sample collected at factory. Cover held on by circular. Label without name of manufacturer with the word compound stencilled thereon.
" 24	Plum Jam.....	26847	" " ..	3 " 25		" " ..
" 25	Strawberry Jam	26848	The Ozo Co., Ltd., Mount Royal Ave., Montreal.	3 " 25		Taken at factory of vendor. Word compound in small characters on side of label in stencil.
" 25	Peach Jam.	26849	" " ..	3 " 20		" " ..
" 25	Strawberry Jam	26850	St. Louis Preserving Co., Ville St. Louis.	3 " 40		Taken at factory of vendor. Word compound printed on label. Challenge Brand.
" 25	Raspberry Jam..	26851	" " ..	" 40		" " ..
" 27	Raspberry Jelly.	26852	A. A. Lapierre, 773 E. Notre Dame St., Montreal.	3 " 25		Taken at factory of vendor. Word compound printed on label.
" 27	Strawberry Jelly	26853	" " ..	3 " 25		" " ..
" 27	Raspberry Jam..	26854	N. Belanger, 101 Brebeuf St., Montreal.	3 " 25		" " ..
" 27	Plumb Jam.	26855	" " ..	3 " 25		" " ..
Dec. 4	Marmalad	26868	Mrs. Luke, 183 Bleury St., Montreal.	3 " 30	Vendor	Taken at place of manufacture.
" 4	Raspberry Jam.	26869	" " ..	3 " 45	"	" " ..
" 4	Grape Jelly.....	26870	" " ..	45	"	" " ..

SESSIONAL PAPER No. 14

190 SAMPLES OF FRUIT PRESERVES—Continued.

RESULTS OF ANALYSIS.											
Chief Analyst's Remarks.	Insoluble solids.	Dissolved solids.	SACCHARIMETER— NORMAL WEIGHT TO 100CC.			Residual cane sugar— (Clerget.)	Soluble matter, other than cane sugar.	Dextrine.	Preservatives.	Dyes.	Remarks by Mr. McGill.
			Direct.	Invert.	Difference.						
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
Adulterated according to Act.	Stencilled 'compound' and not conspicuously.....										Not analysed.
" ..	The word 'compound' is stencilled across the label at the edge.....										"
" ..	Stencilled 'compound'.....										"
" ..	The word 'compound' is stencilled in exceedingly small characters in the upper right hand corner.										"
Adulteration declared.	The word 'compound,' although in small letters, is printed in the original label close to the name of the article.										"
" ..											"
" ..											"
" ..	Marked 'compound' although in small characters.....										"
Unadulterated	64·26	+5·1	—19·6	24·7	18·0	46·26	None	None	None	None	Genuine.
" ..	48·46	—8·4	—12·6	4·2	3·0	45·46	"	"	"	"	"
" ..	62·98	+11·2	—18·5	29·7	22·2	40·78	"	"	"	"	"

6-7 EDWARD VII., A. 1907

TABULATED STATEMENT REGARDING

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.
1905.			District of Montreal—Concluded.	Cts.		
Dec. 12	Strawberry Jam.	26879	E. Dufour, 266 Dorchester, Montreal	3 jars 25	.....	Manufactured by vendor. Samples collected at factory. Labelled in French with word compound in stencil on end of label in small type. Contrary to Act. See labels attached.
" 12	Raspberry Jam..	26880	" " ..	3 " 25	.....	" " ..
" 12	Peach Jam.....	26881	" " ..	3 " 25	.....	" " ..
" 22	Strawberry Jam	26886	Laporte, Martin & Co., St. Peter, Montreal.	3 " 27	Canada Preserving Co.	Labelled absolutely pure.
" 22	" ..	26887	Demers, Fletcher & Co., St. Paul St., Montreal.	3 " 25	Canada First, Aylmer Canning Co.	.....
" 22	Raspberry Jam.	26888	" " ..	3 " 25	" " ..	.....
" 22	Strawberry Preserves.	26889	Hudon & Orsali, St. Paul St., Montreal.	3 " 57	E. D. Smith, Windsor, Ont.	.....
			District of Ottawa—A. E. Sanderson, Insp.			
Nov. 23	Crab Apple Jelly	28485	Harry Bennett, Albert St., Ottawa.	3 jars 30	Vendor.....	Samples sold as pure crab apple jelly. No label.
" 23	Raspberry Jam..	28486	" " ..	3 " 60	" ..	Sample sold as pure raspberry jam. No label.
" 29	Strawberry Jam.	28487	Thomas Stevens, Carleton Place.	3 " 75	Goodwillie & Son, Welland, Ont.	Sold as pure strawberry jam by vendor.
" 29	Lily Brand Plum Jam.	28488	R. D. Carnichael, Carleton Place.	3 " 30	Canada Preserving Co., Ltd., Hamilton.	Labelled absolutely pure plum jam.
" 29	Red Currant Jam	28489	E. C. Armand, Arnprior.	3 " 45	H. Goodwillie & Son, Welland, Ont.	Supposed and sold as pure red currant jam by vendor. Labelled as such.
" 29	Black Currant Jelly.	28490	W. M. Howe, Arnprior.	3 " 30	T. A. Lytle & Co., Toronto.	Labelled black currant jelly. Sterling Brand. Retail.
" 29	Red Currant Jelly.	28491	J. B. Kemp, Pembroke.	3 " 30	E. D. Smith, Windsor, Ont.	Labelled currant jam. Trade mark 'E.D.S.'
" 30	Upton's Strawberry Jam.	28492	Griffith Bros., Pembroke.	3 " 30	Upton	Labelled Upton's -strawberry jam.

SESSIONAL PAPER No. 14

190 SAMPLES OF FRUIT PRESERVES—Continued.

Chief Analyst's Remarks.	RESULTS OF ANALYSIS.										Remarks by Mr. McGill.
	Insoluble solids.	Dissolved solids.	SACCHARIMETER— NORMAL WEIGHT TO 100CC.			Residual cane sugar— (Clerget.)	Soluble matter, other than cane sugar.	Dextrine.	Preservatives.	Dyes.	
			Direct.	Invert.	Difference.						
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
Adulterated according to Act.	Stencilled 'composé' in small and indistinct at edge of label. The label also bears the words 'A. Anatolie, Bayeux, France.'										Not analysed.
" ..	"										"
Adulterated ..	2·00	54·74	+27·3	+15·4	11·9	9·0	45·74	8·25	Benzoic acid.	Present.	Contains glucose, a preservative and is dyed.
Adulterated according to Act.	Stencilled 'compound' in small and indistinct letters.										Not analysed
Unadulterated ..	6·54	64·56	+27·3	—20·8	48·1	35·9	28·60	None.	Salicylic acid.	None ..	Genuine but contains a preservative.
" ..	.....	.....	—4·9	—19·2	14·3	10·8	.....	"	None ..	" ..	Genuine.
" ..	.....	49·04	—1·7	—17·0	15·3	11·5	37·54	"	" ..	" ..	"
" ..	.....	51·66	+13·6	— 0·9	14·5	10·8	40·86	Trace.	Salicylic acid.	Present.	Contains a little glucose, a preservative and is dyed.
Adulterated according to Act.	In addition to the words absolutely pure, the label bears the word compound, small and indistinct.										Not analysed.
Doubtful.	.....	46·92	+23·1	+22·6	0·5	6·4	46·52	Present.	None.....	None...	Contains glucose.
Unadulterated ..	.....	60·84	+17·7	—21·7	39·4	29·4	31·44	None.	Benzoic acid.	Present.	Genuine but contains a preservative and is dyed.
" ..	.....	60·26	+4·4	—13·9	18·3	13·6	46·66	"	None.....	None...	Genuine.
Adulterated according to Act.	Label bears the words 'pure fruit, compound' in very small letters at edge of label.										Not analysed.

6-7 EDWARD VII., A. 1907

TABULATED STATEMENT REGARDING

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.
1905.			<i>District of Ottawa—Concluded.</i>	Cts.		
Nov. 30	Raspberry Jelly.	28493	Martin & Co., Pembroke.	3 jars 30	The Ozo Co., Montreal.	Sold as pure raspberry jelly.
Dec. 1	Upton's Plum Jam.	28495	Bell Bros., Mattawa.	3 " 45	Upton.....	Labelled Upton's plum jam. Sold as pure.
Nov. 30	Red Currant Jelly.	28494	Martin & Co., Pembroke.	3 " 45	E. D. Smith, Winaona, Ont.	Sold as pure jelly. Labelled currant jelly.
Dec. 1	"	28496	G. L. Lamothe, Mattawa.	3 " 45	H. Goodwillie & Son, Welland, Ont.	Labelled red currant jelly.
" 2	Red Currant Jam	28497	J. A. House & Co., North Bay.	3 " 75	Crosse & Blackwell, London Eng.	Labelled red currant jam.
" 2	Peach Jam.....	28498	Blanchet & Fitzpatrick, North Bay.	3 " 75	Hungerford, Smith Co., Ltd., Toronto.	Labelled peach jam...
" 2	Raspberry Jam.	28499	Levecque & Co., Sturgeon Falls.	3 " 75	Davies, Toronto...	Labelled pure fruit, compound.
" 5	Cairns Apple Jelly.	29202	C. A. Farmer, Perth, Ont.	3 " 90	Cairns & Paisley, Scotland.	Labelled Cairns finest Scotch preserves. Apple jelly. Special quality. Paisley, Scotland.
" 5	Apricot Jam....	29203	" " " "	3 " 90	Alexander Cairns & Co., Paisley, Scotland.	Labelled apricot jam..
" 5	Red currant Jelly	29204	J. H. Mendals, Perth, Ont.	3 " 60	Aylmer Canning Co., Aylmer, Ont.	Vendor purchased same from Lumsden Bros., Hamilton. Marked compound. Sold as red currant jelly.
" 5	Black Currant Jelly.	29205	" " " "	3 " 60	" " " "	" " " " Sold as black currant jelly.
" 6	Lily Brand Raspberry Jelly.	29206	H. N. Bate & Son, Ottawa, wholesale.	3 " 30	Canada Preserving Co., Hamilton.	Labelled compound.
<i>District of Kingston—J. Hogan, Inspector.</i>						
Nov. 21	Jam.....	28533	G. Robertson & Son, Ontario St., Kingston.	1½ lbs. 25	Canada Preserving Co., Hamilton.	Wholesale.....
" 21	"	28534	W. G. Craig, Ontario St., Kingston.	2 " 45	Badger, London, England.

190 SAMPLES OF FRUIT PRESERVES—*Continued.*14—15½

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TABULATED STATEMENT REGARDING

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.
1905.			District of Kingston—Concluded.	Cts.		
Nov. 27	Jelly	28542	G. W. Armstrong, Cornwall.	3 lbs. 35	Upton, Hamilton..	.....
" 27	Jam	28543	D. J. Gillies, Pitt St., Cornwall.	3 " 30	J. W. Windsor, Montreal.	.....
" 27	"	28547	M. L. Smith, Pitt St., Cornwall.	3 " 30	Upton, Hamilton..	.....
" 27	Jelly	28548	A. B. Sheramen, Morrisburg.	1½ " 30	H. Goodwillie & Son, Welland.	.....
" 28	Red Currant Jelly.	28554	J. Mayberry, Main St., Prescott.	3 " 90	Crosse & Blackwell, London.	.....
" 28	Apple Jelly....	28555	" " ..	3 " 90	" " ..	.....
" 28	Jam	28556	McDermott & McCarthy, Main St., Prescott.	1½ " 30	Standard Canning Co., Hamilton.	.....
" 28	Raspberry Jam.	28558	E. Whitney, Main St., Prescott.	1½ " 30	Graham, Hamilton	.....
" 28	Orange Marmalade.	28559	F. H. Clifford, Brockville.	1½ " 30	Aylmer Canning Co., Aylmer, Ont.	.....
" 28	Plum Jam ...	28560	Camerson-Soper, Brockville.	3 " 45	Graham, Hamilton	.....
" 29	Strawberry Jam	28564	A. E. Shaver, Brockville.	3 " 75	Lipton, London...	.....
" 29	Red Currant Jam.	28565	J. Culbert, Brockville.	1½ " 30	Canada Preserving Co., Hamilton.	.....
" 29	Raspberry Jam..	28566	R. R. Dowsley, Brockville.	1½ " 30	Upton, Hamilton..	.....
" 29	Strawberry Jam	28568	A. D. Adams, Brockville.	6 " 75	Badger & Co., London.	.....
" 29	Peach Jam.....	28569	Mrs. McHenry, Brockville.	1½ " 45	Standard Canning Co., Montreal.	.....
" 30	Jam	28570	W. J. Blife, Gananoque.	3 " 40	Graham, Hamilton	Duplicate broken.....
" 30	Raspberry Jam.	28572	S. J. Wilson, Gananoque.	1½ " 30	J. H. Smith, Toronto.	.....
" 30	"	28573	W. G. Rogers, Gananoque.	9 " 1 00	Pure Gold, Toronto	.....

SESSIONAL PAPER No. 14

190 SAMPLES OF FRUIT PRESERVES—Continued.

Chief Analyst's Remarks.	RESULTS OF ANALYSIS.										Remarks by Mr. McGill.
	Insoluble solids.	Dissolved solids.	SACCHARIMETER— NORMAL WEIGHT TO 100CC.			Residual cane sugar— (Clerget.)	Soluble matter, other than cane sugar.	Dextrine.	Preservatives.	Dyes.	
			Direct.	Invert.	Difference.						
	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
Unadulterated		57·64	+12·2	+4·2	8·0	6·0	51·64	Trace.	Benzoic acid.	Present.	Contains a little glucose, and a preservative and is dyed.
Adulterated according to Act.	Stencilled 'compound' indistinctly on edge.										Not analysed.
" "	Marked 'pure fruit, compound'										"
Doubtful		75·60	+44·3	+38·5	5·8	4·3	71·30	Present.	Salicylic acid.	Present.	Contains glucose, a preservative and is dyed.
Unadulterated			+5·8	—21·7	27·5	20·5		None.	None.	None.	Genuine.
"		65·70	+10·5	—20·6	31·1	23·2	42·50	"	"	"	"
Adulterated according to Act.	Bears the word 'compound' stencilled and indistinct										Not analysed.
Adulteration declared.	Marked 'compound' plainly under the name of the article										"
Adulterated		64·72	+42·5	+23·4	19·1	14·2	50·52	Much.	Benzoic acid.	None.	Contains glucose and a preservative.
Adulterated according to Act.	Marked 'absolutely pure' with the word 'compound' in small letters following.										Not analysed.
Unadulterated		55·24	+32·4	—7·8	40·2	30·0	25·24	None.	Benzoic acid.	Present.	Contains a little glucose, a preservative and is dyed.
Adulteration declared.	Marked 'compound'										Not analysed.
Adulterated according to Act.	Marked 'pure fruit, compound' in small and indistinct letters										"
Unadulterated		66·00	+31·5	—3·8	35·3	26·3	39·70	Trace.	Salicylic acid.	None.	Contains a little glucose and a preservative.
Doubtful	10·2		+46·6	+11·2	35·4	26·3		Present.	Benzoic acid.	None.	Contains glucose and a preservative.
"		63·68	+59·9	+40·9	19·0	14·2	49·48	Present.	"	Present.	Contains glucose, a preservative and is dyed.
Adulterated according to Act.	Stencilled 'compound' very indistinctly										Not analysed.
Unadulterated		53·24	+10·5	—16·6	27·1	20·2	33·04	None.	Benzoic acid.	Present.	Genuine but contains a preservative.

TABULATED STATEMENT REGARDING

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.
1905.			District of London—T. Kidd, Inspector.	Cts.		
Nov. 23	Raspberry Jam.	22417	McCormick & Co., manufacturers, London.	3 jars 25	McCormack & Co., Dundas St., London.	Branded compound ..
" 23	Plum Jam	22418	" " ..	3 pots 25	" " ..	" " ..
" 23	Raspberry Jam..	22419	" " ..	3 " 25	" " ..	" " ..
" 24	Strawberry Jam.	22420	C. H. Lee, grocer, 125 Dundas St., London.	3 " 30	Graham Canada Preserving Co., Hamilton.	Called Lily Brand strawberry jam.
" 24	Raspberry Jam.	22421	John Duprose, merchant, 56 Dundas St., London.	3 " 30	Upton & Co., Hamilton, called Upton's Pure Fruit Co.	Cannot say what wholesale house he bought from.
" 24	Plum Jam ...	22422	Thomas Upton & Co., manufacturers, Hamilton.	2 " 30	Thomas Upton & Co., manufacturers, Hamilton.	Bought from vendor in his factory. Branded compound.
" 24	Strawberry Jam.	22423	Thomas Upton & Co., Hamilton.	3 " 30	Thomas Upton & Co., Ltd., Hamilton.	Branded compound ..
" 24	Raspberry Jam.	22424	" " ..	3 " 30	Thomas Upton & Co., Hamilton.	" " ..
" 24	Peach Jam.	22425	" " ..	3 " 30	" " ..	" " ..
" 24	Raspberry Jelly.	22426	" " ..	3 " 30	" " ..	" " ..
" 25	Strawberry Jelly	22427	Canada Preserving Co., Hamilton.	3 " 30	Canada Preserving Co., Hamilton.	Bought from manager of company. Branded compound on label.
" 25	Raspberry Jam.	22428	" " ..	3 " 30	" " ..	Branded compound ..
" 25	Red Current Jelly.	22429	" " ..	3 " 30	" " ..	" " ..
" 25	Plum Jam ...	22430	" " ..	3 " 30	" " ..	" " ..
" 25	Raspberry Jam.	22431	J. T. Wallace, grocer, Brantford.	3 " 45	E. D. Smith, Windsor.	Sold as pure goods and not marked compound.
" 25	Powdered Jelly.	22432	Henry Morreson, grocer, Brantford, called McLaren's Jelly Powder.	3 pkgs. 25	Hamilton Coffee and Spice Co., Hamilton.	This is not branded compound.
" 29	Plum Jam. ...	22436	Aylmer Canning Co., Hamilton.	3 jars 25	Aylmer Canning Co., Hamilton.	Marked compound...
" 29	Peach Jam.....	22437	" " ..	3 pots 25	" " ..	Branded compound; small but plain.
" 29	Strawberry Jelly	22438	" " ..	3 " 25	" " ..	Branded compound ..
" 29	Strawberry Jam.	22439	" " ..	3 " 25	" " ..	Labelled compound ..
" 29	Raspberry Jelly.	22440	" " ..	3 " 25	" " ..	Branded compound ..

6-7 EDWARD VII., A. 1907

TABULATED STATEMENT REGARDING

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.
1905.			District of Manitoba—W. M. Conklin, Inspector.	Cts.		
Nov. 27	Black Currant Jam.	25595	The White Star Mfg. Co., Winnipeg.	3 jars 30	The White Star Mfg. Co., Winnipeg.	Sold as a compound ..
" 28	Plum Jam	25597	K. McKenzie & Co., Winnipeg.	7 lbs. 45	Canada First, Aylmer Canning Co.	" " ..
" 28	Jam.	25598	G. F. & J. Galt, Winnipeg.	7 " 45	J. W. Windsor, Montreal.	Sold as pure jam
" 28	Strawberry Preserve.	25599	Codville & Co., Winnipeg.	3 jars 90	E. D. Smith, Winona, Ont.	.....
" 29	Jam.	25600	Campbell Bros. & Wilson, Winnipeg.	7 lbs. 50	Upton's	Sold as a compound.
" 29	Strawberry Jam.	25701	The A. Macdonald Co., Winnipeg.	3 jars 30	" ..	" " ..
" 29	Jam.	25702	Hicks Bros., Winnipeg.	7 lbs. 45	Not known...	" " ..
" 29	" ..	25703	Dingle & Stewart, Winnipeg.	7 " 60	McCormick Mfg. Co.	" " ..
Dec. 8	Raspberry Jam.	25707	The T. A. Garland Co., Portage la Prairie.	3 jars 75	Shiriff's, Toronto..	.....
			District of Calgary—W. Fletcher, Inspector.			
Dec. 18	Strawberry Jam	28616	Campbell Bros. and Wilson, Calgary, wholesalers.	3 jars 40	J. W. Windsor, Montreal, P.Q.	Word 'compound' in small letters on edge of label.
" 18	Red Currant Jelly.	28617	Codville, Smith Co., Calgary, wholesalers.	3 " 75	E. D. Smith, Winona, Ont.	.....
" 20	" ..	28618	G. F. & J. Galt, Calgary, whole-sale.	3 " 35	Upton's, Hamilton	Marked 'pure fruit, compound' in small letters on label.
" 20	Strawberry Preserve.	28619	" ..	3 " 65	E. D. Smith, Winona, Ont.	.....

SESSIONAL PAPER No. 14

190 SAMPLES OF FRUIT PRESERVES —Continued.

RESULTS OF ANALYSIS.											
Chief Analyst's Remarks.	Insoluble solids.	Dissolved solids.	SACCHARIMETER-- NORMAL WEIGHT TO 100CC.			Residual cane sugar-- (Clerget.)	Soluble matter, other than cane sugar.	Dextrine.	Preservatives.	Dyes.	Remarks by Mr. McGill.
			Direct.	Invert.	Difference.						
Adulterated according to Act.	Stencilled 'compound' very indistinctly.										Not analysed.
Adulteration declared.	.....	56.72	+28.7	+24.5	4.2	3.1	53.62	Pre-sent.	Benzoic acid.	None..	Contains glucose and a preservative, but sold as compound. Fruit of poor quality.
Adulterated ..	.....	65.60	+102.9	+89.2	13.7	10.2	54.40	Much	Salicylic acid.	Present.	Contains glucose and a preservative and is dyed. Very little fruit.
Unadulterated .....	.....	58.14	+22.4	-17.1	39.5	30.0	28.14	None.	None. ...	None..	Genuine.
Adulteration declared.	...	65.30	+53.9	+28.9	25.0	18.6	46.70	Pre-sent.	Benzoic acid.	Doubtful.	Contains glucose and a preservative, but sold as compound.
Adulterated according to Act.	Marked 'pure fruit, compound' in small letters distinct from name of article.										Not analysed.
Adulteration declared.	.....	69.44	+124.2	+115.5	8.7	6.5	62.94	Much	None. ...	Present.	Contains glucose and is dyed, but is sold as a compound. Very little fruit.
" ..	.....	59.36	+51.1	+31.2	19.9	14.9	44.46	"	Benzoic acid.	"	Contains glucose and a preservative and is dyed, but is sold as a compound.
Unadulterated .....	.....	61.74	0.9	-19.6	18.7	14.0	47.74	None.	None....	None..	Genuine.
Adulterated according to Act.	Word 'compound' stencilled on edge of label.										Not analysed.
Unadulterated .....	.....	64.54	-2.6	-21.9	19.3	14.2	50.34	None.	None.....	None...	Genuine.
Adulterated according to Act.	Marked 'pure fruit, compound' in small and indistinct letters.....										Not analysed.
Unadulterated	2.21	62.18	+23.6	-20.5	44.1	33.2	28.98	None.	None.....	None...	Genuine.

6-7 EDWARD VII., A. 1907

TABULATED STATEMENT REGARDING

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.
1905.			District of Calgary—Concluded.	Cts.		
Dec. 20	Raspberry Jelly	28620	James Turner & Co., Calgary, wholesalers.	3 jars 30	Upton's, Hamilton, Ont.	
" 20	Raspberry Jam.	28621	James Turner & Co., Calgary Branch, wholesale.	3 " 35	" "	
			District of British Columbia—E. B. Parkinson, Inspector.			
Nov. 29	Raspberry Jam.	28025	Kelly, Douglas & Co., Vancouver.	3bots. 1.45	H. J. Heinz Co., Pittsburgh, U.S.	Heinz preserved red raspberries.
" 30	Red Currant Jelly.	28026	Baker, Leeson & Co., Vancouver.	3 " 75	Mfg. by Pure Gold Mfg. Co., Toronto.	Balmoral brand, red currant jelly, Toronto.
" 30	Black Currant Jam.	28027	A. Macdonald & Co., Vancouver.	3 " 30	The Wm. Davies Co., Ltd., Toronto.	Genuine Canadian produce. Pure fruit jam. Black currant. Wm. Davies Co., Toronto.
" 30	Blackberry Jam	28028	Hudson's Bay Co., Vancouver.	3 " 65	Long Syrup Refining Co., San Francisco, Cal.	Selected California fruit, preserved in pure sugar. Blackberry jam. Long's preserves.
Dec. 1	Raspberry Jam	28029	Westminster Fruit Packing Co., New Westminster, B.C.	3 " 45	Westminster Fruit Packing Co., New Westminster, B.C.	Pure raspberry jam...
" 1	Blueberry Jam.	28030	" " "	3 " 45	" " "	The goods were packed but the labels were not out of printers' hands. Was assured they would be same as that on sample 28029, but with change in name of jam.
" 1	Strawberry Jam	28031	" " "	3 " 45	" " "	(See remarks above).
" 2	Climax Gooseberry Jam.	28032	Empress Manfg. Co., Vancouver, B.C.	5 lb. p'l 40	Empress Manufacturing Co., Vancouver, B.C.	Climax brand jams and jellies, 'mixture' made from choice B.C. fruits. Climax Manfg' Co., Vancouver. Sold and marked as a mixture.

SESSIONAL PAPER No. 14
190 SAMPLES OF FRUIT PRESERVES—Continued.

Chief Analyst's Remarks.	RESULTS OF ANALYSIS.										Remarks by Mr. McGill.
	Insoluble solids.	Dissolved solids.	SACCHARIMETER— NORMAL WEIGHT TO 100CC.			Residual cane sugar— (Clerget.)	Soluble matter, other than cane sugar.	Dextrine.	Preservatives.	Dyes.	
			Direct.	Invert.	Difference.						
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
Adulterated...		69·62	+61·8	+20·3	41·5	32·0	37·62	13·15	Benzoic acid.	Present.	Contains glucose and a preservative, and is dyed.
Doubtful.....	2·35	62·56	+39·6	+23·5	16·1	12·0	50·56	3·60	Salicylic acid.	Doubtful.	Contains glucose and a preservative.
Unadulterated		53·90	—2·6	—17·5	14·9	11·0	42·90	None.	Benzoic acid.	Trace...	Genuine but contains a preservative.
"		63·20	+4·2	—19·2	23·4	17·6	45·60	"	Benzoic acid.	Present.	Genuine but contains a preservative and is dyed.
"		51·48	—7·3	—11·9	4·6	3·4	48·08	"	None.....	None...	Genuine.
Doubtful.....		59·08	+97·3	+89·1	8·2	6·1	52·98	Present.	"	Present.	Contains glucose and is dyed.
Unadulterated		49·88	—3·1	—10·3	7·2	5·3	44·58	None.	"	None.	Genuine.
"		40·40	+3·5	—11·5	15·0	11·2	29·20	"	"	" ...	"
"		66·30	+12·6	—18·0	30·6	22·9	43·40	"	"	" ...	"
Adulteration declared.		51·82	+53·9	+40·1	13·8	10·3	41·52	Present.	Salicylic acid.	Doubtful.	Contains glucose and a preservative. Sold as a mixture—very little fruit.

6-7 EDWARD VII., A. 1907

TABULATED STATEMENT REGARDING

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.
1905.			<i>District of British Columbia—</i> Concluded.	Cts.		
Dec. 2	Empress Raspberry Jam.	28033	Empress Manfg. Co., Vancouver, B.C.	3 jars 50	Empress Manufacturing Co., Vancouver, B.C.	Empress brand jams and jellies, put up by Empress Manfg. Co., Vancouver; a new label will bear the word 'mixture' as large as the word registered on white ground.
" 2	Victoria Cross Strawberry Jam	28034	" " " "	3 " 40	" " " "	Victoria Cross jams and jellies. Pure, wholesome and delicious. Strawberry jam. W. H. Malkin Co., Ltd., Vancouver.
" 4	Gold Medal Strawberry Preserves.	28035	W. H. Price, Victoria, B.C.	3 bots. 50	W. H. Price, Victoria.	Price Preserving Co. Pure preserves.
" 4	Excelsior Plum Jam.	28036	" " " "	3 " 40	" " " "	Absolutely pure fruit preserves. Preserved by Excelsior Fruit Preserving Co., Mfrs. of Gold Medal Brand.
" 4	Strawberry Jam	28037	J. H. Todd & Son, Victoria, B.C.	5 lb. p'l 25	Aylmer Canning Co., Aylmer, Ont.	Canada First brand. Strawberry jam. Preserved by Aylmer Canning Co.
" 4	Raspberry Jam	28038	R. H. Rithet & Co., Victoria, B.C.	3 cans 1.20	Simcoe Canning Co., Simcoe Ont.	Lynn Valley brand, pure jams and jellies.
" 4	Crown Brand Strawberry Jam.	28039	F. R. Stewart & Co., Victoria, B.C.	3 jars 50	F. R. Stewart & Co., Victoria, B.C.	I understand there is a working arrangement between this factory and the Vancouver Island Branch of the B.C. Fruit Growers Association.
" 4	Diadem Raspberry Jam.	28040	" " " "	3 " 40	" " " "	Diadem brand jams and jellies.

SESSIONAL PAPER No. 14
190 SAMPLES OF FRUIT PRESERVES—*Concluded.*

RESULTS OF ANALYSIS.											
Chief Analyst's Remarks.	Insoluble solids.	Dissolved solids.	SACCHARIMETER — NORMAL WEIGHT TO 100CC.			Residual cane sugar — (Clerget.)	Soluble matter, other than cane sugar.	Dextrine.	Preservatives.	Dyes.	Remarks by Mr. McGill.
			Direct.	Invert.	Difference.						
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
Unadulterated		62·34	+12·9	−17·8	30·7	22·9	39·44	None.	Benzoic acid.	None...	Genuine but contains a preservative.
Doubtful		62·52	+74·2	+46·5	27·7	20·6	41·92	Pre-sent.	Salicylic acid.	" ...	Contains glucose and a preservative. Very little fruit.
Unadulterated		64·50	+19·9	−18·9	38·8	29·2	35·30	None.	None.....	" ...	Genuine.
"			+21·0	−15·9	36·9	27·4	.....	" ..	" ....	Trace...	"
Doubtful.....		64·08	+30·8	+16·5	14·3	10·8	53·28	Pre-sent.	Benzoic acid.	Present.	Contains glucose, a preservative and is dyed.
Adulterated...		60·80	+63·7	+53·9	9·8	7·3	53·50	Much.	Salicylic acid.	" ..	" "
Unadulterated		55·56	+6·1	−17·7	23·8	17·4	38·16	None.	Trace (benzoic acid).	None...	Genuine but contains a trace of a preservative.
"		55·74	+19·2	−17·4	36·6	27·3	28·44	" ..	"	" ...	Very little fruit, otherwise is genuine.

APPENDIX O.**BULLETIN No. 120.—MAPLE SYRUP AND SUGAR.**

OTTAWA, April 24, 1906.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—In accordance with your request of the 19th March last, a collection of samples of maple syrup and maple sugar was ordered on the following day. The Food Inspectors set to work at once to procure the samples, although, at the first, none were obtainable of the yield of the present spring. It was said that the season was two months later than usual, but, nevertheless, both syrups and sugars were on sale in several cities, the character of which will be evident from the particulars given in the tabulated statement attached to this report.

This statement gives the names of the various brands, of the parties from whom they were procured, and also any remarks made by the Food Inspectors regarding the purchase. The analytical work was done by Mr. J. G. A. Valin, and the results obtained by him are stated. Acting upon my advice he characterized those as adulterated in which 'any inferior or cheaper substance had been substituted wholly or in part' for the products of maple sap. After receiving his results I made an inspection of the packages and their labels in order to ascertain whether anything upon these prevented the application of the above definition, as provided for in the clauses under (g) of the Adulteration Act. I have mentioned in the table under 'remarks regarding package and extracts from label' any noteworthy facts connected with the inspection of the packages, and in addition have pointed out the cases in which, as it appeared to me, the fact of foreign addition had been adequately declared.

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From the following statement the number of the samples collected in the various inspection districts, and the results of the examination above described may be ascertained :—

MAPLE SYRUPS.

Name of District.	Genuine.	Doubtful.	Adultera- tion Declared.	Adulter- ated.	Total.
Nova Scotia.....	2	0	0	3	5
P. E. Island.....	0	0	0	2	2
New Brunswick.....	3	0	0	2	5
Quebec.....	5	0	1	2	8
St. Hyacinthe.....	5	1	0	7	13
Montreal.....	2	1	0	9	12
Ottawa.....	3	0	2	4	9
Toronto.....	0	0	1	10	11
London.....	2	0	0	6	8
Manitoba.....	0	0	4	0	4
Calgary.....	0	0	0	2	2
British Columbia.....	0	0	0	6	6
	22	2	8	53	85

MAPLE SUGARS.

Name of District.	Genuine.	Doubtful.	Adultera- tion Declared.	Adulter- ated.	Total.
Nova Scotia.....	2	0	0	0	2
P. E. Island.....	0	1	0	1	2
New Brunswick.....	0	0	0	2	2
Quebec.....	0	0	0	2	2
St. Hyacinthe.....	1	0	0	1	2
Montreal.....	2	0	0	0	2
Ottawa.....	2	0	0	2	4
Kingston.....	1	1	0	0	2
Toronto.....	0	0	0	1	1
London.....	0	1	0	1	2
Manitoba.....	1	0	0	0	1
Calgary.....	1	0	0	1	2
British Columbia.....	1	0	0	1	2
	11	3	0	12	26

From the foregoing it will be seen that 85 samples of syrup and 26 of sugar, 111 in all were collected, and that of these 65 or 58.5 per cent were found to be adulterated.

I have the honour to be, sir,
Your obedient servant,

THOMAS MACFARLANE,
Chief Analyst.

INSPECTION OF MAPLE SYRUP AND SUGAR

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1906.			<i>District of Nova Scotia—R. J. Waugh, Inspector.</i>		
Mar. 29	Maple Flavour Syrup .	27404	T. L. Harvey, Wolfville, N.S.	1 tin, 35c..	Imperial Syrup Co., Montreal.
" 30	Maple Syrup.....	27407	Larder, Hubley & Co., Halifax, N.S.	1 pint, 20c..	A. Westover, Sutton Junction, Que.
" 30	Golden Tree.....	27409	J. Frank Crowe & Co., Halifax, N.S.	3 bots., 36c.	New England Maple Sugar Co., Boston.
" 30	Maple Syrup.....	27411	W. Y. Hopgood, Halifax, N.S.	1 pint, 30c..	D.F.Archibald, Athol, N.S.
" 29	Maple Sugar	27405	R. E. Harris, Wolfville, N.S.	1½ lbs., 25c..	T. P. Price, Parrsboro', N.S.
" 30	Maple Flavour Syrup.	27408	E. W. Crease & Son, Halifax, N.S.	1 tin, 35c..	Imperial Syrup Co., Montreal.
" 30	Maple Sugar.....	27412	Moirs, Ltd., Halifax, N.S.	1½ lbs. 20c..	Lowell Son & Co., Sherbrooke, Que.
			<i>District of P. E. Island—T. Moore, Inspector.</i>		
Mar. 29	National Brand.	28262	John McKenna, Charlottetown.	3 cans, 84c..	Joseph Nantel, Montreal.
" 31	Beaver Brand.....	28266	Geo. W. Warren, Summerside.	3 " 45c..	Carvel Bros., Charlottetown.
" 29	Maple Sugar..	28264	W. A. Hutcheson, Charlottetown.	1¼ lbs., 20c..	F. T. Thomas & Co., Quebec.
" 31	"	28267	J. Ching, Summerside.....	1 lb. 20c..	J. Nantel, Montreal...
			<i>District of New Brunswick—J. C. Ferguson, Inspector.</i>		
Mar. 27	Maple Syrup.....	24141	W. Fenwick, wholesale, City Market, St. John, N.B.	3 bots., 75c..	Goddard Bros., Elgin, Albert Co., N.B.
" 28	Diamond Brand	24142	C. S. Philps, cor. Douglas Ave. & Main Sts., north end, St. John, N.B.	3 cans, 72c..	Canadian Maple Syrup Sugars, Ltd., Montreal.
" 30	Maple Syrup.	24145	R. Jones, 576 Main St., St. John, N.B., north end.	3 bots., 60c..	Furnished by W. Fenwick, wholesale, City Market, St. John, N.B.
" 30	Royal	24146	H. E. Williams & Co., Ltd., wholesale, cor. Charlotte & Princess Sts., St. John, N.B.	3 " 75c..	T. Kenny & Son, Hal-lerton, Que.
" 31	Maple Syrup.....	24147	Vanwart Bros., cor. Duke & Charlotte Sts., St. John, N.B.	3 " \$1. 5..	H. O. Huestis, Bear Island, York Co., N.B.

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—FIRST COLLECTION, 1906.

Inspector's Report.	RESULTS OF ANALYST'S TESTS.		Analyst's Conclusions.	Remarks regarding Package and Extracts from Label.	Remarks by the Chief Analyst.
	Percentage on Dry Substance.				
	Lead sub-acetate precipitate.	Total Ash.			
Labelled Maple Flavour Syrup.	0.40	0.246	Adulterated . . .	Labelled Imperial Maple Flavour Syrup, but not marked 'Compound' or 'Mixture.'	Adulterated; maple syrup having been asked for.
Sample drawn from 1/2 gall. can. No label.	2.98	0.692	Genuine		Genuine.
Labelled Golden Tree. Vermont Maple Syrup.	0.38	0.184	Adulterated . . .	Not marked 'Compound' or 'Mixture.'	Adulterated.
Sample taken from bulk.	4.13	0.830	Genuine		Genuine.
Last year's stock.	4.46	0.833	"		"
Last year's product.					
Labelled Maple Flavour Syrup.	0.40	0.223	Adulterated . . .	Labelled Imperial Maple Flavour Syrup, but not marked 'Compound' or 'Mixture.'	Adulterated; maple syrup asked for.
Vendors are manufacturing confectioners.	2.66	0.700	Genuine		Genuine.
National Brand Maple Syrup. Vendor would not sell as pure.	0.90	0.130	Adulterated . . .	Not marked 'Compound' or 'Mixture.'	Adulterated.
Labelled Edwardsburg Maple Table Syrup. Manufactured by the Edwardsburg Starch Co	0.30	0.368	Contains glucose	From label 'we guarantee that this maple syrup will keep fresh and wholesome.'	"
Bought for pure maple sugar, but vendor would not say it was.	2.07	0.960	Genuine		Doubtful.
Only sample procurable in Summerside. Would not sell for pure maple sugar.	0.29	0.188	Adulterated . . .	Package not marked 'Compound' or 'Mixture.'	Adulterated.
New stock. Vendor is agent for producer.	5.00	1.330	Genuine	In bulk	Genuine.
Labelled Diamond Brand, Pure sap. Canadian maple syrup. Sugars Ltd., Montreal. Guarantee of purity. Not sold as pure maple syrup.	0.46	0.293	Adulterated . . .	Marked 'Pure Sugar Mixture' but not with the single word 'Compound' or 'Mixture.'	Adulterated.
No labels on bottles. Producers Goddard Bros., Albert Co., N.B.	5.24	1.084	Genuine		Genuine.
Labelled Royal Maple Syrup.	2.00	0.400	Adulterated . . .	'Thoroughly recleansed. Quality and flavour retained. We use only the finest cane and maple sugar. Absolutely no glucose or other adulterant used.'	Adulterated.
On label ; manufactured by H. O. Huestis, Bear Island, York Co., N.B.	2.67	0.803	Genuine	'Pure Maple Honey' . . .	Genuine.

6-7 EDWARD VII., A. 1907

INSPECTION OF MAPLE SYRUP AND SUGAR

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1906.			<i>District of New Brunswick</i> <i>—J. C. Ferguson, Inspector</i> <i>—Concluded.</i>		
April 5	Maple Sugar	24150	Vanwart Bros., cor. Duke & Charlotte Sts., St. John, N.B.	3 bars, 70c..	William Hudson, St. John, N.B.
" 5	"	24151	Walter Gilbert, cor. Charlotte & Princess Sts., St. John, N.B.	3 " 60c..	Hudson & Co., North Market St., St. John, N.B.
			<i>District of Quebec—C. E. Roy, Inspector.</i>		
April 2	Maple Syrup.	29084	Octave Jacques, Quebec...	1 can, 85c..	Sugars, Ltd., Montreal
" 2	"	29085	Elzear Turcotte "	1½ pints, 13c..	J. A. Perrault " . .
" 3	"	29086	Chas.S. Riverin "	1 qt., 30c..	Not known
" 3	"	29088	O. Lacroix "	1 pint, 15c..	McCormick Mfg. Co., Ltd., London, Ont.
" 4	"	29089	George Larochelle "	1½ pints, 20c..	Not known
" 4	"	29090	A. A. J. Gingras "	1½ " 25c..	"
" 5	"	29091	Pierre Renaud "	1½ " 20c..	Louis Tessier, Ancienne Lorette.
" 5	"	29093	S. P. Brousseau "	1 pint, 15c..	Julien, Rivière aux Chiens.
Mar. 23	Maple Sugar	29075	J. B. Thibeau et Cie. Que.	.. 32c..	Louis Rheume, Que..
" 27	"	29079	Le Bond et Frère, Que....	6 lbs., 42c..	Irenée Pouliot, Que...
			<i>District of St. Hyacinthe—</i> <i>J. C. Rouleau, Inspector.</i>		
April 2	Maple Syrup.	24593	MacRae Bros., Richmond, Que.	1 quart, 30c..	Wilford Lawrence, Malbourne Ridge, Q.
" 2	"	24594	G. J. Jamieson, Richmond, Que.	1 " 25c..	" "
" 3	"	24595	Jos. Drainville, Valcourt, Ely, Que.	1 " 25c..	Jos. Verronneau, Valcourt, Ely, Que.
" 4	"	24996	H. E. Bell, Foster, Que.	3 tins, 30c..	Vendor...
" 4	"	24957	J. & W. F. Peters, Magog.	1 tin, 75c..	F. A. Vaughn, Millington.
" 5	"	24598	Royer & Fisette, Sherbrooke.	1 quart, 25c..	Vendors.....
" 5	"	24599	Thos. Cowan, Sherbrooke..	1 " 32c..	S. Jardin, Suffield
" 6	"	24600	Elie Beaudry, St. Dominique, Bt.	1 tin, \$1.00..	Vendor's sons.....
" 14	"	401	Edmond Bousquet, St. Pie, Qué.	1 pint, 25c..	Vendor.
" 14	"	402	Aimé Blanchet, Lapresentation, Que.	1 " 20c..	"
14	"	403	Osias Girard, Lapresentation, Que.	1 " 20c..	"

SESSIONAL PAPER No. 14

—FIRST COLLECTION, 1906—Continued.

Inspector's Report.	RESULTS OF ANALYST'S TESTS		Analyst's Conclusions.	Remarks regarding Package and Extracts from Label.	Remarks by the Chief Analyst.
	Percentage on Dry Substance.				
	Lead sub-acetate precipitate.	Total Ash.			
No label. Vendors statement. Made by John Garland, Elgin, Albert Co., N.B.	1·80	0·225	Adulterated	Not marked 'Compound' or 'Mixture.'	Adulterated.
No label, no marks. Vendors statement. New Brunswick maple sugar	1·31	0·288	"	" "	"
Marked pure maplesyrup. Mixture.	0·61	0·307	Adulterated . . .	Duplicate samples not marked 'Compound' or 'Mixture.'	Adulterated.
Sold as compound.	1·10	0·215	"	Duplicate marked 'Compound.'	Adulteration declared.
.	2·00	0·607	Doubtful.	Duplicates not marked 'Compound' or 'Mixture.'	Doubtful.
.	0·67	0·284	Adulterated	" "	Adulterated.
.	4·58	0·969	Genuine. . . . .	. . . . .	Genuine.
.	2·09	0·808	Doubtful.	No marks on duplicate samples.	Doubtful.
.	3·50	0·861	Genuine.	" "	Genuine.
.	2·69	0·876	"	" "	"
Sold as compound.	0·33	0·089	Adulterated	Not marked 'Compound' on the packing paper.	Adulterated.
" "	0·30	0·110	"	" "	"
Maker was present at the sale.	2·15	0·645	Genuine.	Duplicate samples have no producers label.	Doubtful.
.	1·65	0·550	Doubtful.	" "	Adulterated.
.	2·00	0·630	Genuine	" "	Doubtful.
.	2·98	0·584	Genuine.	" "	Genuine.
.	1·63	0·392	Adulterated.	Not marked 'Compound' or 'Mixture.'	Adulterated.
Container was not marked with the word 'compound.'	2·40	0·550	Genuine.	No producers label on duplicates.	Doubtful.
.	1·20	0·470	Adulterated.	Not marked 'Compound' or 'Mixture.'	Adulterated.
.	2·12	0·654	Genuine.	No label on duplicate. . .	Doubtful.
Taken out of a milk can.	1·63	0·653	Doubtful.	Not marked 'Compound' or 'Mixture.'	Adulterated.
" "	1·16	0·630	Adulterated.	" "	"
" "	1·16	0·546	"	" "	"

6-7 EDWARD VII., A. 1907

INSPECTION OF MAPLE SYRUP AND SUGAR

Date of Collection.	Nature of Sample.	No of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1906.			<i>District of St. Hyacinthe— J. C. Rouleau, Inspector. —Concluded.</i>		
April 14	Maple Syrup...	404	Philibert Chicoine, St. Dominique, Que.	1 " 25c..	Vendor ...
" 14	"	405	Gauvin et frères, l'Ange Gardien, Que.	1 " 20c..	"
Mch. 26	Maple Sugar.....	24591	Jos. Chartier, St. Jean, Que.	2 lbs., 20c..	Not known.....
April 4	"	24592	Alin Ouellette, Aston Station, Que.	1 loaf, 50c..	Benoit Prince, Aston, Que.
			<i>District of Montreal—J. J. Costigan, Inspector.</i>		
Mch. 30	Maple Syrup	25089	James Dalrymple & Son, St. Paul St., Montreal.	1 tin, 80c..	John Gibson, Rockburn.
" 30	"	25090	Canada Maple Exchange, King St., Montreal.	1 " 50c..	Put up by vendor....
" 30	"	25091	Pierre Doucette, 29 Bonsecours Market, Montreal.	2 bots., 50c..	Benoit & Drouin, St. Benoit.
" 30	"	25092	Labrecque & Pellerin, 415 Ontario, east, Montreal.	2 tins, 40c..	Vendors.....
" 31	"	25093	A. Benoit, St. Antoine Market, Montreal.	1 bot., 25c..	Gunn, Langlois et Cie., Montreal.
" 31	"	25094	G. W. Brunet, St. Antoine Market, Montreal.	1 tin, 50c..	J. Lamoureaux, Montreal.
" 31	Evaporated Maple Syrup.	25095	W. J. Falle, St. Antoine Market, Montreal.	1 " 75c..	Ogden & Sweet, North Sutton, P.Q.
April 3	Maple Syrup.....	25096	J. B. Tailleur, St. Hillaire, Que.	3 pints, 45c..	Vendor.....
" 3	"	25097	Pierre Jette, St. Scholastique.	3 " 38c..	"
" 3	"	25098	A. Lafontaine, Belœil, Que.	3 " 40c..	"
" 23	Semper Idem Brand		Unknown. (Sample submitted by the Hon. the Minister of Agriculture.)		Wm. Koch, Montreal..
" 23	Maple Flavour Syrup, (Dew drops.).		"		Canada Maple Exchange, Dunham, Que., Canada. Head Office, Montreal.

SESSIONAL PAPER No. 14

—FIRST COLLECTION, 1906—Continued.

Inspector's Report.	RESULTS OF ANALYST'S TESTS.		Analyst's Conclusions.	Remarks regarding Package and Extracts from Label.	Remarks by the Chief Analyst.
	Percentage on Dry Substance.				
	Lead sub-acetate precipitate.	Total Ash.			
Taken out of a milk can.	0·80	0·630	Adulterated	Not marked 'Compound' or 'Mixture.'	Adulterated.
" "	0·30	0·561	"	" " . .	"
Box marked 'maple sugar' and a maple leaf stamped on it.	0·35	0·122	"	Not marked 'Compound.'	"
.....	5·24	0·557	Genuine	No label on duplicates . . .	Genuine.
No label and put up in gallon tins.	3·05	0·853	Genuine . . . . .	.....	"
Labelled 'Small's selected maple syrup.' Sold as pure.	0·67	0·403	Adulterated	This sample bears a copy of a certificate of analysis by Milton L. Hersey, stating that the test failed to detect the presence of any adulteration or preservative whatever.	Adulterated.
Put up for sale in 1½ pint bottle. No label and sold as pure.	1·54	0·769	Doubtful.. . . .	.....	Adulterated.
Vendors stated that the article was a compound. Same goods exposed for sale on Bonsecour Market and other places as maple syrup, in tins, without label	0·40	0·117	Adulterated	Not labelled as 'Compound.'	Adulterated.
Sold as pure.	0·10	0·139	Adulterated	No mention of 'Compound.'	"
Labelled 'Quebec maple syrup.'	0·69	0·368	"	" " . .	"
Labelled Pure Evaporated maple syrup.	2·70	0·846	Genuine . . . . .	.....	Genuine.
Sold as pure.	0·55	0·290	Adulterated	No mention of 'Compound' or 'Mixture.'	Adulterated.
" "	0·67	0·736	"	" " . .	"
" "	0·70	0·738	"	" " . .	"
.....	0·73	0·207	"	Marked 'Genuine Maple Flavour Syrup,' but not marked 'Compound' or 'Mixture.'	"
.....	0·73	0·346	"	Not marked 'Compound' or 'Mixture,' but bears a certificate by Milton L. Hersey, to the effect that his tests 'failed to detect the presence of any adulterants or preservatives whatever.'	"

INSPECTION OF MAPLE SYRUP AND SUGAR

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1906.			District of Montreal—J. J. Costigan, Inspector Concluded.		
Mar. 22	Maple Sugar	25081	Sugars, Ltd., St. Thérèse St., Montreal.	3 lbs., 25c..	Vendors.....
" 26	"	25082	Canada Maple Exchange, King St., Montreal.	3 lbs., 40c..	Vendor.....
			District of Ottawa—A. E. Sanderson, Inspector.		
Mar. 27	National Brand	29218	H. N. Bate & Sons, whole sale, Ottawa.	2 tins, 30c..	Sugars Ltd., Montreal.
" 27	Cabinet Brand	29219	H. N. Bate & Sons, whole sale, Ottawa.	2 " 30c..	Grocers Manufg. Co., Montreal.
" 30	Maple Syrup	29223	Hunt's Dairy, 151 Bank St., Ottawa.	3 bottles 90c..	J. H. Grimm, Montreal.
" 30	Forest Brand	29224	C. B. McLean, 137 Bank St., Ottawa.	3 " 75c..	The MontrealMapleCo.
" 30	Cabinet Brand	29225	R. McGregor, 180 Sparks, Ottawa.	3 " 75c..	" " . . .
April 9	Maple Syrup	29226	F. H. Cluff, 352 Bank St. Ottawa.	3 " 90c..	W. E. Ansell, Ayer's Flat, Que.
" 9	"	29229	R. E. Powell, Elgin St., Ottawa.	1 gall. \$1.00..	Savage, South Stukely
" 9	Star Brand	29230	L. Mallette, cor. Dalhousie and Murray Sts., Ottawa	3 bottles 60c..	Not known.
" 10	Beaver Brand	29231	Rod Beaudet, 196 Dalhousie St., Ottawa.	3 " 75c	The Montreal Maple Co.
" 9	Maple Sugar	29227	F. H. Cluff, 352 Bank St., Ottawa.	3 cakes 30c..	W. E. Ansell, Ayer's Flat, Que.
" 9	"	29228	Peter Pannelli, 298 Bank St., Ottawa.	3 " 30c..	Sugars, Ltd., Montreal
Mar. 27	"	29215	H. Blackburn, cor. Metcalfe and Albert Sts., Ottawa.	1½ lbs. 30c..	" "
" 27	"	29216	Kavanagh Bros., Sparks St., Ottawa.	1½ " 30c..	" "
			District of Kingston—J. Hogan, Inspector.		
Mar. 21	Cabinet Brand Genuine Maple Flavour Syrup	28574	W. G. Craig, Ontario St., Kingston, Ont.	3 qts. 75c..	Montreal Maple Co.

Inspector's Report.	RESULTS OF ANALYST'S TESTS.		Analyst's Conclusions.	Remarks regarding Package and Extracts from Label.	Remarks by the Chief Analyst.
	Percentage on Dry Substance.				
	Lead sub-acetate precipitate.	Total Ash.			
Labelled; guarantee of purity. Twin block maple sugar is guaranteed to be pure Maple and nothing else.	3.82	1.033	Genuine		Genuine.
Sold as pure. Sample taken at factory.	3.55	0.733	"		"
Labelled National Brand Maple Syrup. Guaranteed free from acids, chemicals, glucose, &c.	0.30	0.350	Adulterated	Marked pure maple and cane 'Mixture.'	Adulteration declared.
Labelled Cabinet Brand Maple Syrup. The Montreal Maple Co.	0.46	0.192	"	Not marked 'Compound' or 'Mixture.'	Adulterated.
Labelled Eastern Townships pure maple syrup from Maple Grove Farm, South Stukely, Que., guaranteed pure.	3.81	0.878	Genuine		Genuine.
Labelled Forest Brand Maple Flavour Syrup Canada.	0.50	0.040	Adulterated	Not marked 'Compound' or 'Mixture'.	Adulterated; maple syrup having been asked for.
Labelled Cabinet Brand genuine maple flavour syrup.	0.25	0.060	"	Not marked 'Compound' or 'Mixture'.	Adulterated.
Labelled Eastern Townships Maple Syrup.	4.59	0.715	Genuine	Guaranteed pure	Genuine.
No label. Sold as pure maple syrup.	2.77	0.461	"	New maple syrup	Doubtful.
Labelled Star Brand Maple Syrup. Compound stencilled on label.	0.38	0.231	Adulterated	Marked compound	Adulteration declared.
Labelled maple flavour syrup Beaver brand.	None.	0.138	Adulterated	Not marked 'Compound' or 'Mixture'.	Adulterated; maple syrup asked for.
Vendor purchased from Clough, Ayer's Flat, Que.	6.66	0.844	Genuine	No label on duplicates . . .	Genuine.
Labelled. Guaranteed of purity. Sugars Co., Ltd., Montreal.	3.94	0.666	"	" " " " " " " "	"
Box labelled and guaranteed absolutely pure maple sugar.	1.42	0.466	Adulterated	Not marked as compound	Adulterated.
Box labelled and guaranteed absolutely pure maple sugar.	1.62	0.388	"	" " " " " " " "	"
Not sold as pure syrup .	0.16	0.138	Adulterated	Not marked 'Compound' or 'Mixture.'	"

INSPECTION OF MAPLE SYRUP AND SUGAR

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1906.			<i>District of Kingston—J. Hogan, Inspector—Concluded.</i>		
Mar. 21	Diamond Brand Pure Sap Canadian Maple Syrup.	28575	F. Ostler, Johnston St., Kingston, Ont.	3 qts. 75c..	Sugars, Ltd., Montreal
" 21	Silver Crown Brand Maple Syrup.	28577	A. Glover, Earl St., Kingston, Ont.	2½ " 75c..	Robertson, Nicolle Co., Kingston.
" 22	Maple Syrup....	28579	Anderson Bros., Princess St., Kingston, Ont.	1½ pts. 45c..	W. Koch, Montreal...
" 22	Maple Syrup Compound in stencil.	28582	Van Luven, Princess St., Kingston, Ont.	3 qts. 75c..	Simcoe Maple Syrup Co., Toronto.
" 22	Star Brand Maple Syrup compound.	28584	John Eves, Market St., Kingston, Ont.	3 " 75c..	Star Brand.....
" 22	Maple Syrup.....	28585	P. G. Wilmot, King St., Kingston, Ont.	1½ pts. 30c..	Robertson, Nicolle Co., Kingston.
" 22	Silver Crown Brand Pure maple and cane mixture.	28586	J. McCulla, Montreal St., Kingston, Ont.	2½ qts. 75c..	Robertson, Nicolle Co., Kingston.
" 22	Maple Sugar.....	28581	J. Kelley, Princess St., Kingston, Ont.	1½ lbs. 30c..	Sugars, Ltd., Montreal
" 22	" " " " " " " "	28587	A. Rees, Princess St., Kingston, Ont.	1½ " 30c..	" " " "
			<i>District of Toronto—W. H. McPhie, Inspector.</i>		
Mar. 23	Maple Syrup	29105	Battram & Co., King St. West, Hamilton.	3 qts. 75c..	Eastern Townships Maple Syrup and Sugar Exchange, Sutton, Que.
" 23	Diamond Brand	29107	O. W. Robins, Locke St., Hamilton, Ont.	3 pts. 45c..	Sugars, Ltd., Montreal
" 23	Maple Flavour Syrup..	29108	Wm. Carroll, Locke St., Hamilton, Ont.	3 qts. 75c.	Brome County Maple Flavour Syrup Co.
" 23	Extra Fine Maple Syrup	29109	Miss A. Cornell, Locke St., Hamilton, Ont.	3 " 75c..	R. M. Griffin, agent, Hamilton.
" 23	Lily Brand Compound	29110	Canada Preserving Co.	3 pts. 33c..	Canada Preserving Co.
" 17	Maple Syrup ...	29111	C. H. Stock, Waterdown, Ont.	1 qt. —	C. H. Stock, Waterdown, Ont.
" 24	" " " " " " " "	29112	C. H. Stock, Waterdown, Ont.	1 " 30c..	C. H. Stock, Waterdown, Ont.
" 28	Maple Flavour Syrup..	29113	W. H. Merriman, St. Catharines, Ont.	3 " 75c..	Thistle Canning Co., Montreal, Que.
" 30	Maple Syrup	29115	E. Paterson, Market St., Brantford, Ont.	3 pts. 45c.	Geo. Fosters & Son, Brantford, Ont.

SESSIONAL PAPER No. 14

—FIRST COLLECTION, 1906—Continued.

Inspector's Report.	RESULTS OF ANALYST'S TESTS		Analyst's Conclusions.	Remarks regarding Package and Extracts from Label.	Remarks by the Chief Analyst.
	Percentage on Dry Substance.				
	Lead sub-acetate precipitate.	Total Ash.			
Not sold as pure syrup ..	0·55	0·185	Adulterated	Not marked 'Compound' or 'Mixture' but it is stated that 'This syrup is guaranteed to be free from acid, chemicals, glucose or any other adulteration and to be absolutely pure maple and cane sugar product.	Adulterated.
" " ..	0·50	0·300	"	Marked 'Pure Mixture.'	Adulteration declared.
" " ..	0·43	0·146	"	Marked 'Compound.'	Adulteration declared.
" " ..	1·41	0·076	"	Bears the word 'Compound' in very small green letters on the green maple leaf.'	Adulterated.
" " ..	0·24	0·161	"	Marked 'Compound' but the letters are not conspicuous being of smaller size than the others on the label.	"
" " ..	0·50	0·461	" ...	Marked 'Compound'	Adulteration declared.
" " ..	0·46	0·192	" ..	Marked 'pure maple and cane mixture.'	Adulteration declared.
.....	2·48	0·522	Doubtful.	Not marked 'Compound.'	Doubtful.
.....	2·71	0·677	Genuine.....	.....	Genuine.
.....	0·28	0·246	Adulterated ...	Marked 'Finest Eastern Townships Maple Syrup,' also bears the word 'Compound,' but in small letters.	Adulterated.
Diamond Brand pure sap	0·67	0·223	" ...	Marked same as No. 28575.	"
Put up by vendor.....	0·37	0·346	" ...	Not marked 'Compound,' or 'Mixture.'	"
Supposed to be put up by McCormick Co., London, Ont.	0·24	0·085	"	Not marked 'Compound' but bears the words 'purity guaranteed.'	"
.....	0·33	0·461	" ...	Marked 'Compound.'....	Adulteration declared.
Sold in bulk on market..	0·61	0·076	"	Not marked 'Compound.'	Adulterated.
" " ..	0·43	0·062	" ...	" "	"
Thistle brand.	0·33	0·115	" ...	Not marked 'Compound' or 'Mixture.'	"
Sold in bulk	0·43	0·277	"	No 'Compound' or 'Mixture' marked.	"

INSPECTION OF MAPLE SYRUP AND SUGAR

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1906			<i>District of Toronto—W. H. McPhie, Inspector—Concluded.</i>		
Mar. 30	Genuine Maple Flavour Syrup.	29116	Fred Wright, Market St., Brantford, Ont.	3 qts. 75c.	Geo. Watt, Brantford, Ont.
April 3	Maple Syrup.....	29119	Medland Bros., Yonge St., Toronto, Ont.	3 pts. 30c.	Edwardsburg Starch Co.
" 3	" "	29112	Mrs. Borthwick, Freelton, Ont.	2 p 25c.	Mrs. M. Fisher, Westover, Ont.
" 2	Maple Sugar	29117	White & Co., Front St., Toronto, Ont.	3 cakes 45c.	Sugars, Ltd., Montreal, Que.
			<i>District of London—T. Kidd, Inspector.</i>		
Mar. 23	Maple Syrup.. . . .	22459	Cardino Bros., Seaforth, Ont	1 qt., 30c.	McCormick Manufg. Co., London, Ont.
" 24	" "	22462	Sturday & Co., Goderich, Ont.	1 " 30c.	McCormick Manufg. Co., London, Ont.
" 27	" "	22466	A. G. Lloyd, Stratford, Ont.	1 " 30c.	A. G. Lloyd, Stratford, Ont.
" 27	" "	22467	The White Packing Co., Stratford, Ont.	1 " 30c.	Not known.....
" 28	" "	22469	Betzner & Co., Berlin, Ont	1 " 30c.	McCormick Manufg. Co., London, Ont.
" 28	Brome County Maple Flavour Syrup.	22470	George Williams, Guelph, Ont.	1 " 30c.	Purchased by vendor from Brome Co., Que.
" 28	Refined Maple Syrup..	22471	E. W. Randall, Guelph, Ont.	1 " 25c.	T. Littell & Co., wholesale agents, Toronto.
" 29	Maple Flavour Syrup..	22472	David Martin, Tottenham, Ont.	1 " 30c.	Imperial Syrup Co., Montreal.
" 24	Maple Sugar.....	22461	J. J. McEwen, Goderich, Ont.	2 lbs., 20c.	Stratford Grocery Co., wholesale.
" 24	" "	22463	William T. O'Neill, Clinton, Ont.	2 " 20c.	George Watts & Co., wholesale, Brantford, Ont.
			<i>District of Manitoba—W. M. Conklin, Inspector.</i>		
April 4	Maple Syrup.. . . .	25740	Campbell Bros. & Wilson, Winnipeg.	24 ozs.....	Vendor.....
" 4	" "	25742	G. F. J. Galt, Winnipeg..	3 pts	Sugars Co., Ltd., Montreal.
" 5	" "	25745	Telford Bros., Winnipeg..	1 qt., 25c.	Canada Maple Exchange.
" 6	" "	25746	The Jobin, Marrin Co., Winnipeg.	1 " 30c.	Imperial Syrup Co. Montreal.
" 6	Maple Sugar.	25747	J. G. Hargrave & Co., Winnipeg.	3 cakes, 15c.	Bright & Johnston Winnipeg

SESSIONAL PAPER No. 14

—FIRST COLLECTION, 1906—Continued.

Inspector's Report.	RESULTS OF ANALYST'S TESTS.		Analyst's Conclusions.	Remarks regarding Package and Extracts from Label.	Remarks by the Chief Analyst.
	Percentage on Dry Substance.				
	Lead sub-acetate precipitate.	Total Ash.			
Semper Idem Brand	0·55	0·200	Adulterated . . .	No 'Compound' or 'Mixture' marked.	Adulterated.
Not sold as maple syrup but simply table syrup.	0·70	1·035	Contains glucose	Same as No. 28266.	"
Sold on Hamilton market in bulk. Many complaints have been made regarding it.	0·37	0·077	Adulterated	Not marked 'Compound' or 'Mixture.'	"
.....	0·77	0·666	"	Not marked 'Compound' or 'Mixture.'	"
No label	0·30	0·500	Adulterated . . .	Not marked 'Compound' or 'Mixture.'	Adulterated.
No label; vendor bought same for pure maple syrup.	0·55	0·00	"	" " " "	"
No label; vendor purchased from Muskoka Maple Syrup Co., Hamilton.	0·86	0·346	"	" " " "	"
No label.	4·05	0·869	Genuine. . . . .	.....	Genuine.
"	0·64	0·277	Adulterated . . .	Not marked 'Compound' or 'mixture.'	Adulterated.
.....	0·43	0·153	"	Same as No. 29108. . . .	"
.....	0·69	0·900	Genuine. . . . .	.....	Genuine.
.....	0·50	0·128	Adulterated	On label, 'The syrup in this package does not contain glucose, preservative or acid of any kind,' but it is not marked 'Compound' or 'Mixture.'	Adulterated.
No label.	0·90	0·367	"	Not marked 'Compound.'	"
.....	1·93	0·733	Doubtful . . . .	.....	Adulterated.
Sold as a compound. . . .	0·24	0·838	Adulterated . . .	Marked 'Compound'	Adulteration declared.
.....	1·60	0·484	"	'Perfect Gem Maple Syrup' marked as a mixture.	" "
Sold as a compound. . . .	1·29	0·338	"	Marked by inspector on label 'sold as a Compound.'	" "
" "	0·30	0·198	"	" " " "	" "
.....	4·28	0·822	Genuine.	No producer's label on duplicates.	Genuine.

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INSPECTION OF MAPLE SYRUP AND SUGAR

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1906.			<i>District of Calgary—W. Fletcher, Inspector.</i>		
Mar. 30	Maple Syrup, Royal Shield.	28628	J. C. Winn, Calgary.....	3 tins, 20c....	Campbell Bros., & Wilson, Winnipeg, Man.
" 30	Diamond Brand Pure Sap.	28630	Codville Smith Co., Calgary 3	" 50c.....	Sugars, Ltd., Montreal
" 30	Maple Sugar... ..	28629	J. C. Winn, Calgary.....	1½ lbs., 25c....	McCormick's, London, Ont.
" 30	" " " " " " " "	28632	Calgary Milling Co...:....	1½ " 20c..	Wm. T. Berry, Brome, Que.
			<i>District of British Columbia—E. B. Parkinson, Inspector.</i>		
Mar. 31	Maple Syrup.....	28057	E. A. Sanborn, Vancouver, B.C.	1 qt.. 30c.....	Vendor
" 31	Empire Brand.....	28060	LaBelle & Co., Vancouver, B.C.	1 " 30c.....	Ramsay Bros. & Co., Vancouver, B.C.
" 31	Maple Syrup.....	28062	H. J. Hampton, Vancouver, B.C.	1 " 45c....	Eastern Townships Maple Syrup & Sugar Exchange, Sutton, Q.
" 31	Log Cabin Maple Syrup.	28063	The W. H. Malkin Co., Vancouver, B.C.	½ gal., 80c....	The Towle Maple Syrup Co., St. Paul, Minn.
April 2	Red Cross Brand... ..	28065	Hudson's Bay Co., Vancouver, B.C.	1 qt., 30c.....	Pacific Coast Syrup Co., 713 Sansome St., San Francisco.
" 2	Maple Syrup, Tartan Brand.	28068	A. DesBrisay, Vancouver, B.C.	½ gal., 75c . .	Balfour & Co., Hamilton, Ont.
Mar. 31	Maple Sugar... ..	28058	E. A. Sanborn, Vancouver, B.C.	1 lb., 25c.....	Vendor.
April 2	" " " " " " " "	28067	Foran Bros., Vancouver, B.C.	1½ lbs., 25c....	LaCroix & Frère Broughton, Que.

SESSIONAL PAPER No. 14

—FIRST COLLECTION, 1906—*Concluded.*

Inspector's Report.	RESULTS OF ANALYST'S TESTS		Analyst's Conclusions.	Remarks regarding Package and Extracts from Label.	Remarks by the Chief Analyst.
	Percentage on Dry Substance.				
	Lead sub-acetate precipitate.	Total Ash.			
.....	0.40	0.446	Adulterated	Marked 'Eastern Townships Brand.'	Adulterated.
.....	0.37	0.206	"	Marked same as No. 24142.	"
.....	0.44	0.110	"	Not marked 'Compound'	"
.....	5.42	1.050	Genuine.....	.....	Genuine.
Bought at factory. Labell- ed 'Canadian Rock Maple Syrup from Can- adian Rock Maple sap. Labelled Empire Brand. Guaranteed pure. Since New Year's have labell- ed as pure maple flavour syrup.	0.30	0.135	Adulterated	Not marked 'Compound' or 'Mixture.'	Adulterated.
Labelled finest E. T. M. syrup. Satisfaction guaranteed.	0.83	0.346	"	" "	"
Every can guaranteed to be absolutely pure. Certificate of purity and agree to forfeit \$500 for any impurity consisting of glucose, acids, etc., in any original package of Towles Log Cabin Maple Syrup.	1.18	0.523	"	" "	"
Strictly pure Canada Maple Syrup. Red Cross Brand. Guarant- eed to give satisfac- tion.	0.40	0.153	"	" "	"
Pure Canada Maple Syrup. Guaranteed free from acids, chemicals, glucose, &c., and to be absolutely pure maple and cane products.	0.30	0.223	"	" "	"
.....	1.14	0.184	"	" "	"
.....	0.26	0.356	"	No producer's label on duplicates.	"
.....	4.62	0.800	Genuine.....	" "	Genuine.

OTTAWA, June 22, 1906.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to refer to my report of April 24 last concerning the first collection of samples of maple syrup and maple sugar during the present year. In accordance with your instructions a second series of 223 samples was obtained in the months of May and June last, a description of which is appended to this report. In examining these the same methods were followed as with the first collection, for detecting the presence of sugar from the cane, which is mostly added in the shape of refined granulated sugar. This is the most common adulterant, but it is quite possible that in some cases molasses may have been used. Based on the same plan of classifying the samples as was used with the first collection the results are as follows :—

MAPLE SYRUPS.

Collection District.	Genuine.	Doubtful.	Adultera- tion Declared.	Adulter- ated.	Total.
Nova Scotia.....	4	0	0	6	10
Prince Edward Island.	2	0	0	2	4
New Brunswick.....	9	1	0	0	10
Quebec.....	15	2	0	1	18
St. Hyacinthe.....	13	4	0	1	18
Montreal..	14	4	0	2	20
Ottawa.....	4	1	2	11	18
Kingston .. .	1	1	6	7	15
Toronto .. .	11	0	0	9	20
London.....	4	1	1	10	16
Manitoba.....	5	1	0	0	6
Calgary .. .	0	2	0	2	4
British Columbia .. .	6	0	0	6	12
	88	17	9	57	171

MAPLE SUGARS.

ova Scotia..	4	0	0	0	4
Prince Edward Island.....	2	0	0	2	4
New Brunswick.. .	5	0	0	0	5
Quebec.....	4	0	0	1	5
St. Hyacinthe.....	4	0	0	0	4
Montreal .. .	3	0	0	1	4
Ottawa .. .	6	0	0	0	6
Kingston .. .	3	0	1	0	4
Toronto .. .	4	0	0	0	4
London.....	4	0	0	0	4
algary .. .	2	0	0	2	4
British Columbia.....	3	0	0	1	4
	44	0	1	7	52

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These two statements shew that 171 samples of maple syrup and 52 of maple sugar were obtained in this second collection or 223 in all. 57 syrups and 7 sugars were found to be adulterated, which is equal to 28·7 per cent, a number which compares favourably with that obtained in the first collection of 58·5 per cent.

I have the honour to be, sir,

Your obedient servant,

THOMAS MACFARLANE,
Chief Analyst.

6-7 EDWARD VII., A. 1907

DESCRIPTION OF 223 SAMPLES OF MAPLE SYRUP AND

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1906.			<i>District of Nova Scotia—R. J. Waugh, Inspector.</i>		
May 15	Maple Syrup.....	27458	Burgess & Quinn, Halifax, N.S.	3 tins 45c..	Imperial Syrup Co., Montreal.
" 15	"	27459	W. A. Adams, Halifax, N.S...	1 pt. 15c..	R. Megeney, Halifax, N.S.
" 15	"	27460	T. Mitchell "	1 bot. 25c..	Unknown
" 16	"	27461	T. Major & Son "	1 tin 25c..	Imperial Syrup Co., Montreal.
" 16	"	27462	J. L. Archibald & Son, Halifax, N. S.	1 pt. 20c..	A. Westover, Hutting Junction, Que.
" 16	Cabinet Brand.....	27463	Doyles Branch, Spring Garden Road, Halifax, N.S.	3 tins 36c..	Maple Co., Montreal..
" 16	Maple Syrup.....	27464	R. J. Forristall, Halifax, N. S.	1 tin 36c..	Maple Co., Montreal..
" 16	Diamond Brand.....	27465	S. Thomson, Dartmouth, N. S.	1 tin 30c..	Sugars, Ltd., Montreal
" 16	Maple Syrup.....	27466	Forsythe, jr "	3 tins 45c..	Imperial Syrup Co., Montreal.
" 17	"	27467	Dr. Wolf & Larmont, Kentville, N.S.	1 bot. 35c..	Unknown.....
" 15	Maple Sugar... ..	27457	T. F. Courtney, Halifax, N.S..	1½ lbs. 25c..	A. McLellan, Cumberland Co., N.S.
" 18	"	27468	Larder, Hubley & Co., Halifax, N.S.	1½ lbs. 30c..	G. H. Harrison, Southampton, N.S.
" 18	"	27469	H. Teas & Co., Halifax, N.S...	1½ lbs. 30c..	Unknown
" 18	"	27470	O. W. Stone "	1½ lbs. 35c..	Supplied by Rooney & Lovett, Importers, Halifax, N.S.
			<i>District of Prince Edward Island—T. Moore, Inspector.</i>		
May 14	Maple Syrup... ..	28289	Mrs. W. F. Carter, Charlottetown.	3 pts. 60c..	E. McKenzie, Spring Hill, N.S.
" 14	"	28290	Beer & Goff, Charlottetown....	3 pts. 60c..	J. E. K. Herrick, Abbotsford, Que.
" 16	Empress Brand.. ..	28293	John Cameron, Charlottetown.	3 pts. 60c..	Canadian Maple Syrup Co., Toronto.
" 17	Maple Syrup.....	28294	Jenkins & Son, Charlottetown.	3 cans 60c..	Brome County Maple Produce Co., Sutton, Que.
" 14	Maple Sugar.....	28287	Sanderson & Co., Charlottetown	1 lb. 24c..	Unknown.
" 14	"	28288	Jenkins & Son "	1 lb. 25c..	Dearborne & Co., St. John.
" 15	"	28291	Wm. Sharon, Murray Harbour.	1 lb. 24c..	Unknown.....
" 16	"	28292	R. K. Brace, Charlottetown...	1 lb. 12c.	F. T. Thomas, Quebec.

SESSIONAL PAPER No. 14

MAPLE SUGAR COLLECTED IN MAY AND JUNE, 1906.

Inspector's Report.	RESULTS OF ANALYST'S TESTS.		Analyst's Remarks.	Name of Analyst.	Remarks regarding Packages and Labels thereon.	Remarks by the Chief Analyst.
	Percentage on Dry Substance.					
	Lead sub-acetate precipitate.	Total Ash.				
Labelled maple flavour syrup.	None	0.284	Adulterated	A.Lemoine	Not marked 'Compound' or 'Mixture'	Adulterated.*
Samples taken from bulk.	2.68	0.769	Genuine....	"	.....	Genuine.
.....	2.95	0.961	" ....	"	.....	"
Labelled as maple syrup.	Trace	0.284	Adulterated	"	No manufacturers label on duplicate samples.	Adulterated.*
Sample taken from 1 gall. tin. No label	2.64	0.730	Genuine ...	"	.....	Genuine.
Labelled maple flavour syrup, Cabinet Brand.	Trace	0.230	Adulterated	"	Not marked 'Compound' or 'Mixture'	Adulterated.
Labelled Maple Syrup	Trace	0.300	"	"	"	"
Sold as Diamond Brand maple syrup.	"	0.169	"	"	"	"
Labelled maple flavor syrup.	"	0.269	"	"	"	"
Said to be produced in Kings Co., N.S.	3.60	0.984	Genuine....		.....	Genuine.
.....	5.57	0.800	"	A. Valin..	.....	"
.....	4.73	0.901	" ...	"	.....	"
Said to be Cumberland Co. product.	5.26	1.010	" ....	"	.....	"
.....	4.31	0.833	" ....	"	.....	"
.....	2.49	0.937	" . .	A.Lemoine	.....	Genuine.
.....	3.55	1.240	" ....	"	.....
'The syrup put up by the manufacturers is pure maple syrup and does not contain any glucose or acid of any kind, and we positively guarantee it to be the best maple syrup on the market, &c.'	Trace	Trace	Adulterated	"	Not marked 'Compound' or 'Mixture'	Adulterated.
Choice Eastern Townships maple syrup. The juice of the maple put up expressly for table use.	"	0.407	"	"	The word compound in small letters is stencilled on side.	
.....	5.44	1.277	Genuine....	A. Valin..	.....	Genuine.
.....	4.17	0.955	" ...	"	.....	"
Vendor said he did not sell for pure maple sugar.	0.80	0.240	Adulterated	"	The duplicate cakes are not marked in any way.	Adulterated.
Vendor says he sells as mixed and for a mixed price.	0.18	0.144	"	"	"	"

* Maple syrup having been asked for.

DESCRIPTION OF 223 SAMPLES OF MAPLE SYRUP AND

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1906.			<i>District of New Brunswick—J. C. Ferguson, Inspector.</i>		
May 25	Maple Syrup	24198	James E. Quinn, City Market, St. John, N.B., commission merchant.	3 bots, \$1.05	Wm. Shamper, Kingston, King's Co., N.B.
" 26	"	24199	W. A. Porter, cor. Waterloo and Union Streets, St. John, N.B.	3 " 1.05	James S. Cliff, Lower Line, Queensburg, York Co., N.B.
" 28	"	24200	W. J. Murphy, 149 Main St., Indiantown, N.E., St. John, N.B.	3 " 90c.	H. O. Huestis & Son, Bear Island, York County, N.B.
" 29	"	24201	Bowman & Cole, 28-30 Water St., St. John, N.B.	3 " 90c.	Willard Clark, Lower Line, Queensbury York County, N.B.
June 4	"	24203	N. W. Eveleigh & Co., Main St., Sussex, N.B., wholesale.	3 " 60c.	Wm. W. Cassidy, Clover Hill, King's Co., N.B.
" 5	"	24204	Goddard Bros., Elgin, Albert County, N.B., wholesale.	3 " 30c.	R. P. Colpitts, Pleasantvale, Albert Co., N.B.
" 6	"	24207	Steeves & Allanach, Main St., Moncton, W.E., N.B.	3 " 50c.	William Renton, Lutes' Mountain, Westmoreland Co., N.B.
" 11	"	24208	John McKnight, Regent St., Fredericton, York Co., N.B.	3 " 75c.	Edwin Close, Keswick Ridge, York Co., N.B.
" 12	"	24209	H. G. Noble, Main St., Woodstock, Carleton Co., N.B.	3 " \$1.05	Anthony Baker, Plymouth, Woodstock Parish, Carleton Co., N.B.
" 14	"	24211	George B. Warnock, Parish of Drummond, Victoria Co., N.B.	3 " 75c.	Vendor
" 13	Maple sugar	24210	Mrs. Frank Goudreau, Broadway, Grand Falls, Victoria Co., N.B.	3 lbs. 40c.	Joseph Coreau, Inishown Settlement, Victoria Co., N.B.
" 14	"	24212	Victor Goodbout, Drummond Parish, Victoria Co., N.B.	5 " 75c.	Vendor
May 30	"	24202	S. Z. Dickson, 8-11 City Market, St. John, N.B.	3 " 48c.	Roy Carter, Elgin, Albert Co., N.B.
June 5	"	24205	Goddard Bros., Elgin, Albert Co., N.B., wholesale.	3 bars, 50c.	John Garland, Elgin Parish, Albert Co., N.B.
" 6	"	24206	Beaton & Co., City Market, Moncton, N.B.	3 " 45c.	John Renton, Lutes Mountain, N.B.
			<i>District of Quebec—C. E. Roy, Inspector.</i>		
May 17	Maple Syrup	639	J. G. Minguy, Rue St. Louis, Lévis.	1½ pt. 25c.	.....
" 15	"	640	H. St. Cyr, Quebec.	1½ " 30c.	Jos. Vezina, Ange Gardien, P.Q.
" 17	"	641	E. T. Genest, rue St. Louis, Lévis.	1 " 15c.	Barry, St. Isidore, Dorchester Co.
" 15	"	642	Leblond et fils, Quebec.	1 " 15c.	Cauchon.

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MAPLE SUGAR COLLECTED IN MAY AND JUNE, 1906—*Continued.*

Inspector's Report.	RESULTS OF ANALYST'S TESTS.		Analyst's Remarks.	Name of Analyst.	Remarks regarding Packages and Labels thereon.	Remarks by the Chief Analyst.
	Percentage on Dry Substance.					
	Lead sub-acetate precipitate.	Total Ash.				
Marks on bottle. Pure maple syrup, made and put up by Wm. Shamper, Kingston, N.B.	3.18	0.638	Genuine	A. Valin..	.....	Genuine.
Label, 'Pure maple honey.'	4.55	0.647	" ..	" ..	.....	"
" " ..	2.95	0.900	" ..	" ..	.....	"
Label on bottle. Pure maple honey.	8.21	1.000	" ..	" ..	.....	"
Label on can. Pure maple syrup.	2.80	1.015	" ..	A. Lemoine	.....	"
Not labelled other than with manufacturer's name.	1.26	1.069	Adulterated	" ..	No manufacturers' labels on duplicate bottles.	Adulterated.
Not labelled.	4.00	1.085	Genuine....	" ..	" " ..	Genuine.
Labelled pure maple honey. Vendor bought for pure maple syrup.	5.29	0.815	" ..	A. Valin ..	.....	"
No label or marks on bottles.	5.04	0.815	" ..	" ..	.....	"
Labelled pure maple syrup. Sample taken from 1 gallon can.	3.63	0.707	" ..	" ..	.....	"
Sample taken from some bars in store.	9.13	1.4277	" ..	" ..	.....	"
This season's sugar. Taken at house of vendor.	4.24	0.962	" ..	" ..	.....	"
No label. Taken from barrel.	3.11	0.644	" ..	" ..	.....	"
Not labelled.	4.00	0.700	" ..	" ..	.....	"
"	4.31	0.611	" ..	" ..	.....	"
.....	2.36	0.861	Genuine....	A. Lemoine	No makers label on any duplicate bottles.	Doubtful.
.....	3.97	1.110	" ..	" ..	" " ..	Genuine.
.....	7.10	1.130	" ..	" ..	" " ..	"
.....	3.93	0.769	" ..	" ..	" " ..	"

DESCRIPTION OF 223 SAMPLES OF MAPLE SYRUP AND

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1906.			<i>District of Quebec—C. E. Roy, Inspector—Concluded.</i>		
May 17	Maple Syrup.....	643	Geo. Ed. Couture, Lévis.....	1 pint, 14c.	Adolphe Leclerc, St. Clair, Dorchester Co.
" 19	"	644	Irenée St. Pierre, Que.	1 " 10c.	Vendor
" 17	"	645	Samuel Paradis, rue Commerciale, Lévis.	1 " 15c.	.....
" 22	"	647	Clovis Mercier, Ste. Marie, Beauce, Que.	1½ " 30c.	Vendor (Cultivateur).
" 23	"	648	Jos. Lessard, St. Joseph, Beauce, Que.	1½ " 30c.	" "
" 23	"	649	Johnny Doyon, St. Joseph, Beauce, Que.	1½ " 30c.	" "
" 23	"	650	Majorique Roy, Beauceville, Que.	1½ " 30c.	" "
" 23	"	651	Fortuna Fortin, Beauceville, Que.	1½ " 30c.	" "
" 28	"	652	Edmond Hamel, Ancienne Lorette, Que.	1½ " 30c.	" "
" 28	"	653	Jean Paquette, Ancienne Lorette, Que.	1½ " 30c.	" "
" 30	"	654	Mederic Racine, Ste. Anne de Beaupré, Que.	1½ " 30c.	" "
" 30	"	655	Francis Paré, Ste. Anne de Beaupré, Que.	1½ " 30c.	" "
June 15	"	656	C. O. Simard, Que.....	1½ " 35c.	A. Paquet, St. Nicholas.
" 15	"	657	C. O. Simard, Que.	1½ " 30c.	J. F. Paradis, St. Raphael.
May 12	Maple Sugar.....	634	Irenée St. Pierre, Que.	2 lbs., 15c.	Vendor.....
" 14	"	637	D. Rattray & Son, Que.....	1 " 24c.	.....
" 15	"	638	Jos. Gagnon, Que.	3 " 29c.	Gravel, Chateau Richer, P.Q.
" 14	"	636	D. Rattaray & Son, Que..	5 " 30c.	.....
June 15	"	658	C. O. Simard, Que.....	2 " 25c.	.....
			<i>District of St. Hyacinthe—J. C. Rouleau, Inspector.</i>		
May 15	Maple Syrup.....	545	Jos. Desjardins, Côte sud, Ste. Thérèse de Blainville.	1 pint, 25c.	Vendors
" 15	"	546	W.P. Brennan, Ste. Thérèse de Blainville.	1 bot., 25c.	A. Dubois, Côte sud, Ste. Thérèse de Blainville.
" 15	"	547	Le Seminaire.....	1 "	Jos. Desjardins, fils de Moïse, Côte sud, Ste. Thérèse.
" 16	"	548	Carpenter Bros., Lachute, Que.	1 pint, 20c.	Unknown
" 16	"	549	Ed. Cailloux, Joliette, Que....	1 " 20c.	Emery Ducharme, 10 Rang de St. Ambroise de Kildare.

SESSIONAL PAPER No. 14

MAPLE SUGAR COLLECTED IN MAY AND JUNE, 1906—*Continued.*

Inspector's Report.	RESULTS OF ANALYST'S TESTS.		Analyst's Remarks.	Name of Analyst.	Remarks regarding Packages and Labels thereon.	Remarks by the Chief Analyst.
	Percentage on Dry Substance.					
	Lead sub-acetate precipitate.	Total Ash.				
.....	2.86	1.130	Genuine. ...	A. Lemoine	No makers label on any duplicate bottles.	Genuine.
Manufactures in large quantities. Purchased on Finlay market.	Trace	0.238	Adulterated	" ..	" " ..	Adulterated.
.....	5.44	0.992	Genuine. ...	" ..	" " ..	Genuine.
.....	2.55	0.230	Adulterated	" ..	" " ..	Doubtful.
.....	2.58	0.838	Genuine. ...	" ..	" " ..	Genuine.
.....	3.54	0.961	" ..	" ..	" " ..	"
.....	2.18	1.131	Doubtful ...	" ..	" " ..	Doubtful.
.....	5.15	1.000	Genuine	" ..	" " ..	Genuine.
.....	5.16	0.984	" ..	" ..	" " ..	"
.....	3.26	1.730	" ..	" ..	" " ..	"
.....	3.78	0.930	" ..	" ..	" " ..	"
.....	4.76	0.961	" ..	" ..	" " ..	"
.....	5.90	0.839	" ..	A. Valin .	" " ..	"
.....	3.29	0.670	" ..	" ..	" " ..	"
Manufactures large quantities. Purchased this sample on the Finlay market.	0.22	0.133	Adulterated	" ..	No makers label on cakes.	Adulterated.
.....	5.31	0.955	Genuine ....	" ..	.....	Genuine.
.....	2.91	0.688	" ..	" ..	.....	"
.....	6.57	1.066	" ..	" ..	.....	"
.....	5.35	1.111	" ..	" ..	.....	"
.....	2.58	0.646	Genuine... .	A. Valin..	No makers label on any of duplicate bottles.	Genuine.
.....	3.50	0.923	"	A. Lemoine	" ..	"
.....	2.00	0.615	Doubtful ...	A. Valin..	" ..	Doubtful.
.....	2.27	0.946	Genuine... .	A. Lemoine	" ..	"
Out of a 20 gall. keg. .	11.44	1.223	"	" ..	" ..	Genuine.

DESCRIPTION OF 223 SAMPLES OF MAPLE SYRUP AND

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1906.			<i>District of St. Hyacinthe—J. C. Rouleau, Inspector—Concluded.</i>		
May 18	Maple Syrup.....	550	F. N. Chagnon, Sorel, Que	1 pint, 30c.	L. Messier, Verchères.
" 18	" "Compound"	551	A. C. Trempe, Sorel, Que	1 " 25c.	L. Lapointe, St. Roch Richelieu.
" 21	Maple Syrup.. .. .	552	W. S. Samson & Son, Windsor Mills, Que.	1 " 25c.	G. D. Lawrence, Melbourne.
" 21	"	553	Jos. Proulx, Windsor Mills, Que.	1 " 20c.	S. Letellier, Windsor Mills.
" 21	"	554	E. T. Roy " "	1 " 25c.	L. Beaulier, 37 rue Lacroix, Montreal.
" 22	"	555	T. R. Paige, Coaticook, Que..	1 tin 65c.	Unknown
" 22	"	556	B. E. Goyette, Magog, Que....	2 bots., 50c.	W. E. Ansell, Ayer's Cliff, Que.
" 22	"	557	Gosselin & Paradis, Magog, Que.	1 pint, 20c.	Unknown
" 23	Pride of Canada Brand	558	Robinson & Tenny, Waterloo, Que.	2 bots., 25c.	Maple Tree Ass., Waterloo.
" 23	Maple Syrup.....	559	A. H. Gingras, Waterloo, Que.	1 tin, \$1.00.	Geo. Authier, Waterloo
" 23	Pride of Quebec Brand	560	Maple Tree Ass., Waterloo, Que.	2 bots	Vendors.....
" 25	Maple Syrup.	561	David Hebert, Drummondville, Que.	1 pint, 25c.	Unknown
" 22	"	566	Gérin & Boulay, Coaticook, Que.	1 " 20c.	Adélaïde Lavallière, Coaticook, Que.
" 16	Maple Sugar.....	562	A. Cleland, Lachute, Que	2 cakes, 20c.	Thos. Powlock, Lachute
" 17	"	563	N. Massicotte, Joliette, Que...	1 " 22c.	Unknown
" 17	"	564	L. Herrault, St. Félix de Valois, Que.	2 " 35c.	G. Beaudry, St Gabriel de Brandon.
" 17	"	565	Maple Tree Produce Association, Waterloo, taken at St. Félix de Valois, Que.	1 "	Alexis Houle, St. Félix de Valois.
			<i>District of Montreal—J. J. Costigan, Inspector.</i>		
May 15	Maple Syrup... ..	26750	Montreal Fruit Exchange, McGill st., Montreal.	1 tin, 75c.	Olmstead & Boright, Sutton, Que.
" 15	"	26751	John Caldwell & Co., McGill st., Montreal.	1 " 65c.	Henry M. Ellisson, Cowansville, P.Q.
" 21	"	26755	Irwin Harris & Co., commission merchants, Montreal.	1 " 85c.	Ogden Sweet, North Sutton, P.Q.

SESSIONAL PAPER No. 14

MAPLE SUGAR COLLECTED IN MAY AND JUNE, 1906—Continued.

Inspector's Report.	RESULTS OF ANALYST'S TESTS.		Analyst's Remarks.	Name of Analyst.	Remarks regarding Packages and Labels thereon.	Remarks by the Chief Analyst.
	Percentage on Dry Substance.					
	Lead sub-acetate precipitate.	Total Ash.				
.....	2.09	0.884	Genuine...	A. Lemoine	No makers label on any	Doubtful.
Out of a 30 gall. milk-can, not marked 'Compound'	3.56	0.646	"	" ..	of duplicate bottles.	Genuine.
Out of a gall. tin not labelled.	2.50	0.661	"	A. Valin..	" ..	Genuine.
.....	7.10	1.061	"	" ..	" ..	"
Label marked 'Eastern Townships maple sryup.'	0.30	0.123	Adulterated	" ..	" ..	Adulterated.
Tin not labelled	2.27	0.545	Genuine....	" ..	" ..	Doubtful.
Labelled 'Eastern Townships maple syrup.' Guaranteed pure.	6.58	0.769	"	" ..	" ..	Genuine.
Out of a 3 gall. can...	5.84	0.823	"	" ..	" ..	"
.....	2.70	0.546	"	" ..	Label states 'put up only by the Maple Tree Producers Association,' Waterloo, Que.	"
No label on can.....	2.74	0.592	"	" ..	No makers label	"
.....	2.64	0.646	"	" ..	Label states "Being packed at our station just as it is received from the producers, you are absolutely certain to get the genuine article.'	"
Out of 5 gall. tin. Not labelled.	3.54	0.646	"	" ..	No manufacturers label	"
No label.....	4.15	0.884	"	A. Lemoine	" ..	"
.....	6.40	0.833	"	A. Valin..	.....	"
.....	3.55	0.777	" ....	" ..	.....	"
.....	3.15	0.788	" ....	" ..	.....	"
.....	3.42	0.611	" ....	" ..	.....	"
Sold as pure. Labels to be placed on the separate tins by retail vendors.	3.63	0.769	Genuine....	A. Lemoine	No manufacturers labels on duplicate bottles.	Genuine.
Not labelled. Guaranteed pure maple syrup.	2.43	0.992	"	" ..	" ..	Doubtful.
Labelled as strictly pure.	2.55	1.392	"	" ..	" ..	Genuine.

DESCRIPTION OF 223 SAMPLES OF MAPLE SYRUP AND

Date of Collection.	Name of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1906.			<i>District of Montreal—J. J. Costigan, Inspector—Concluded.</i>		
May 21	Maple Syrup.. . . .	26756	Crawford & McGarry, commis- sion merchants, Montreal.	1 tin, 70c.	J. A. Martin, South Stukely, P.Q.
" 22	"	26758	J. B. Dufour, Wellington st., Sherbrooke.	3 pints, 40c.	J.W.Campbell, Bulwer
" 22	"	26759	R. Johnston, Strathcona Square, Sherbrooke.	2 bots., 60c.	W. E. Ansell, Ayer's Cliff, P.Q.
" 22	"	26760	W. Murray & Co., Sherbrooke.	3 pints, 38c.	Unknown
" 26	"	26761	Pelletier et frère, 7 Chaboilez Square, Montreal.	1 quart, 25c.	"
" 26	"	26762	A. Lagarde, 549 Notre-Dame, west, Montreal.	1 " 25c.	A. McCullough, Mont- real.
" 28	"	26763	J. G. Côte, 2699 St. Catherine st., Montreal.	1 " 35c.	Unknown
" 28	"	26764	A. Dumont, 941 St. Catherine st., west, Montreal.	1 " 30c.	R. Pollock, St. Jérôme.
" 28	"	26765	E. J. Quinn, cor. St. Catherine & Greene Ave., Westmount.	2 bots., 50c.	A. D. McGillis, Mont- real.
" 28	"	26766	Samuel Smith, 4206 St. Cather- ine st., Westmount.	1 tin, 90c.	. . . . .
" 29	"	26767	James Brown, Huntingdon, P.Q.	3 p n s, 30c.	John Purse, Gore
" 29	"	26768	Pringle, Stark & Co., Hunting- don, P. Q.	½ gall., 50c.	Wm. Gibson, Rockburn
" 29	"	26769	James McGerrigle & Son, Orms- town, P.Q.	3 pints, 33c.	Unknown
" 31	"	26770	W. H. Scroggie, Ltd., St. Cath- erine st., Montreal.	1 quart, 35c.	H.H. Hibbard, Abbots Corner, P.Q.
" 31	"	26771	Brouillet & Guay, 77 University st., Montreal.	1 " 30c.	John Laraway, Sutton, P.Q.
" 31	"	26772	"	1 " 30c.	A. W. Westover, North Sutton, P.Q.
" 31	"	26773	Thompson & Fournier, Berthelot st., Montreal.	1 " 25c.	M. Darby, North Sut- ton, P.Q.
" 17	Maple Sugar	26752	T. Kenny & Son, Hallerton, P.Q.	6 cakes, 50c.	Vendors
" 21	"	26753	Imperial Syrup Co., Montreal.	3 cakes, 27c.	Vendors
" 22	"	26757	J. B. Dufour, Wellington st., Sherbrooke.	4½ lbs , 45c.	J.W.Campbell, Bulwer
" 21	"	26754	Imperial Syrup Co., Montreal.	3 cakes, 24c.	Vendors
			<i>District of Ottawa—A. E. Sanderson, Inspector.</i>		
June 5	Maple Syrup	29282	H. H. Brennan, Bank St., Ottawa.	1 pt., 18c.	J. H. Grimm, Mont- real, Que.
" 5	"	29284	J. G. Stewart, Bank St., Ottawa.	1 bot., 30c.	Unknown
" 6	"	29286	S. Daniels, O'Connor St., Ottawa.	1 pt., 10c.	Freedman's, Ottawa . . .

SESSIONAL PAPER No. 14

MAPLE SUGAR COLLECTED IN MAY AND JUNE, 1906—*Continued.*

Inspector's Report.	RESULTS OF ANALYST'S TESTS		Analyst's Remarks.	Name of Analyst.	Remarks regarding Packages and Labels thereon.	Remarks by the Chief Analyst.
	Percentage on Dry Substance.					
	Lead sub-acetate precipitate.	Total Ash.				
Not labelled. Guaranteed pure.	4.00	1.007	Genuine....	A. Lemoine	No manufacturers labels on duplicate bottles.	Genuine.
Sold as pure.....	3.20	0.800	"	A. Valin..	" ..	"
Labelled pure maple syrup.	2.21	0.698	"	" ..	'Put up at Echo Valley Farm.'	Doubtful.
Sold as pure	2.25	0.698	"	" ..	No makers name on duplicate bottles.	"
"	0.28	0.130	Adulterated	" ..	" ..	Adulterated.
"	None	0.138	" ..	" ..	" ..	"
"	5.90	0.807	Genuine....	" ..	" ..	Genuine.
"	3.08	0.715	"	" ..	" ..	"
"	5.55	0.630	"	" ..	" ..	"
Put up in tins. Labelled guaranteed pure from Maplewood, North Sutton, P.Q.	5.48	0.568	" ..	" ..	" ..	"
Not labelled. Sold as pure.	4.35	0.615	"	" ..	" ..	"
" " ..	4.45	0.707	"	" ..	" ..	"
" " ..	3.75	1.154	"	A. Lemoine	" ..	"
Labelled guaranteed pure.	3.63	0.884	"	" ..	" ..	"
Sold as pure.....	3.04	0.930	"	" ..	" ..	"
Guaranteed pure....	2.40	0.807	"	" ..	" ..	Doubtful.
"	2.24	0.938	"	" ..	" ..	"
Sold as maple sugar..	4.71	0.788	"	A. Valin..	" ..	Genuine.
Labelled maple flavour sugar.	0.84	0.200	Adulterated	" ..	The duplicate cakes has small round labels pasted on them bearing the word maple flavour sugar.	Adulterated.*
Sold as pure.	5.06	0.866	Genuine....	" ..	" ..	Genuine.
Sold as pure. No label.	6.33	1.000	" ..	" ..	" ..	"
Labelled Eastern Townships pure maple syrup.	3.54	0.854	Genuine....	A. Lemoine	No manufacturer's labels on duplicate bottles.	Genuine.
No label.	2.95	0.907	"	" ..	" ..	"
Labelled on can Freedman's Brand genuine maple flavour yrup.	Trace.	0.192	Adulterated	" ..	" ..	Adulterated.†

* Maple sugar having been asked for.

† Maple syrup having been asked for.

6-7 EDWARD VII., A. 1907

DESCRIPTION OF 223 SAMPLES OF MAPLE SYRUP AND

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1906.			<i>District of Ottawa—A. E. Sanderson, Inspector—Concluded.</i>		
June 6	Cabine Brand.....	29287	E. W. Richardson, Elgin St., Ottawa.	1 pt., 10c.	Unknown
" 6	Maple Syrup	29289	E. Gougeon, Market square, Ottawa.	1 " 10c.	Montreal Syrup Co....
" 6	"	29291	N. St. Pierre, Market Square, Ottawa.	1 " 10c.	Freedman, Ottawa....
" 6	"	29292	Wall & Co., Market square, Ottawa.	1 " 13c.	Montreal Syrup Co....
" 6	"	29293	T. Lindsay & Co., Rideau St., Ottawa.	1 " 13c.	Kenny & Keddy, Hemmingford, Que.
" 6	"	29294	Bryson, Graham & Co., Sparks St., Ottawa.	1 " 15c.	Ingall, Farnham Corners, Que.
" 6	Cabine Brand.	29295	D. J. McCullough, Kent St., Ottawa.	1 " 13c.	Unknown
" 6	"	29296	Mrs. Wilkins, Lisgar St., Ottawa.	1 " 10c.	J. G. White, Ottawa..
" 6	Diamond Brand.....	29297	Mrs. Baxter, Lisgar St., Ottawa.	1 " 13c.	" " ..
" 6	"	29298	Geo. Agar, Lisgar St., Ottawa.	1 " 13c.	" " ..
" 6	"	29299	Mrs. Smeaton, Lisgar St., Ottawa.	1 " 13c.	" " ..
" 6	Maple Syrup	29300	Mrs. Macdonald, Percy St., Ottawa.	1 " 13c.	Unknown
" 6	"	29301	D. M. Whelan, Somerset St., Ottawa.	1 " 13c.	Learner & Moyneur...
" 7	"	29303	Kavanagh Bros., Sparks St., Ottawa.	1 bot., 25c.	G. B. Hall, Barnston..
" 7	Cabine Brand.. ..	29305	F. H. Cluff, Bank St., Ottawa.	1 pt., 15c.	Cold Storage, Ottawa .
" 5	Maple Sugar.....	29283	Jas. Ussher, Bank St., Ottawa.	3 cakes, 30c.	Sugars, Ltd., Montreal
" 5	"	29285	S. Farace, Bank St., Ottawa..	3 " 30c.	Unknown
" 6	"	29288	P. Pearson, Rideau St., Ottawa.	3 " 30c.	Sugars, Ltd., Montreal.
" 6	"	29290	E. Gougeon, Market Square, Ottawa.	3 " 30c.	" " ..
" 7	"	29302	Kavanagh Bros., Ottawa.....	3 " 30c.	G. B. Hall, Barnston..
" 7	"	29304	F. H. Cluff, Bank St., Ottawa.	3 " 45c.	Unknown
			<i>District of Kingston—J. Hogan, Inspector.</i>		
May 14	Maple Flavour Syrup	29421	G. Robertson & Son, Kingston, Ont.	3 qts., 75 c.	Montreal Maple Co...
" 14	Maple Syrup.....	29423	A. Glover, Earl St., Kingston..	3 " 90c.	Canada Maple Exchange, Dunham, Que
" 14	Rock Candy Syrup..	29424	E. Mullin, Johnston St., Kingston.	3 " 75c.	Imperial Syrup Co., 88 Grey Nuns St., Montreal.

SESSIONAL PAPER No. 14

MAPLE SUGAR COLLECTED IN MAY AND JUNE, 1906—*Continued.*

Inspector's Report.	RESULTS OF ANALYST'S TESTS		Analyst's Remarks.	Name of Analyst.	Remarks regarding Packages and Labels thereon.	Remarks by the Chief Analyst.
	Percentage on Dry Substance.					
	Lead sub-acetate precipitate.	Total Ash.				
Labelled 'compound' on can.	Trace.	0·199	Adulterated	A. Lemoine	No man'fact'rer's labels on duplicate bottles.	Adulteration declared.
Labelled Freedman's brand genuine maple flavour syrup.	"	0·161	" ..	" ..	" ..	Adulterated.*
No label; bulk syrup; vendor said it was not pure.	"	0·138	" ..	" ..	" ..	Adulterated.
Labelled genuine maple flavour syrup.	"	0·215	" ..	" ..	" ..	Adulterated.*
No label.....	2·24	0·684	Genuine....	" ..	" ..	Doubtful.
Taken from bulk.....	5·84	0·815	"	" ..	" ..	Genuine.
Word compound stencilled in small letters on tin.	Trace.	0·169	Adulterated	" ..	" ..	Adulterated.
Labelled Cabine Brand	"	0·230	" ..	" ..	" ..	"
Labelled pure maple syrup mixture.	"	0·276	" ..	" ..	Marked 'pure mixture,' but not 'Compound' or 'Mixture.'	"
" " ..	"	0·176	" ..	" ..	" ..	"
" " ..	0·64	0·330	" ..	" ..	" ..	"
.....	Trace.	0·154	" ..	" ..	.....	"
Labelled maple flavour syrup.	"	0·084	" ..	" ..	No manufacturers' label on duplicate bottles.	" *
No label, but sold as pure.	1·70	0·315	" ..	" ..	" ..	Doubtful.
Labelled compound; would not sell as pure maple syrup.	Trace.	0·192	" ..	" ..	" ..	Adulteration declared.
Guarantee of purity ..	3·62	0·666	Genuine....	A. Valin ..	.....	Genuine.
No label.....	4·37	0·555	" ..	" ..	.....	"
Guarantee of purity..	4·02	0·677	" ..	" ..	.....	"
Labelled pure.....	3·48	0·511	" ..	" ..	.....	"
Sold as pure; no label.	4·00	0·633	" ..	" ..	.....	"
No label, but sold as pure maple sugar.	4·97	0·833	" ..	" ..	.....	"
.....	Trace.	Trace.	Adulterated	A. Lemoine	Labelled 'Cabinet maple flavour syrup' and evidently bought as such.	Adulteration declared.
.....	2·34	0·515	Doubtful....	A. Valin..	Labelled maple syrup (Dewdrops).	Doubtful.
.....	0·24	0·053	Adulterated	" ..	Not marked 'Compound' or 'Mixture.'	Adulterated.

* Maple syrup having been asked for.

6-7 EDWARD VII., A. 1907

DESCRIPTION OF 223 SAMPLES OF MAPLE SYRUP AND

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1906.			<i>District of Kingston—J. Hogan, Inspector—Concluded.</i>		
May 14	Maple Flavour Syrup	29425	H. A. Smith, Brock St., Kingston.	1 qt., 25c.	Montreal Maple Co....
" 14	" " "	29426	G. H. Williams, Princess St., Kingston.	3 " 75c.	" "
" 14	Maple Syrup	29427	C. Saunders, Princess St., Kingston.	1 " 30c.	Unknown
" 15	"	29429	E. Loyst, Dundas St., Napanee.	3 pts., 45c.	John Sloane, Toronto .
" 15	"	29430	W. W. Kelly, Dundas St., Napanee.	1 qt., 45c.	Montreal Maple Co....
" 15	"	29431	Madden Bros., Dundas St., Napanee.	3 " 75c.	Muskoka Maple Syrup Co.
" 15	"	29432	" " "	3 " 75c.	Robertson, Nicolle Co., Kingston.
" 15	"	29434	Coxall Co., Dundas St., Napanee.	.....	Unknown
" 15	"	29435	Wallbridge & Clark, Belleville.	1½ pts., 45c.	"
" 15	"	29438	R. Elvins, Front St., Belleville	3 qts., 75c.	J. Sloane, Toronto. ...
" 15	Maple Flavour Syrup	29439	H. Fairfield, Belleville.....	3 " 75c.	W. Kock, Montreal. ..
" 15	" " "	29440	J. Hanley, Front St., Belleville	3 " 75c.	Brome County Maple Co.
" 14	Maple Flavour Sugar	29422	F. Clowe, Earl St., Kingston..	1 lb., 30c.	Montreal Maple Co....
" 15	Maple Sugar	29428	A. S. Kimmeny, Dundas St., Napanee.	1 " 30c.	Montreal Sugar Co....
" 15	"	29433	Madden Bros., Dundas St., Napanee.	3 " 30c.	Unknown
" 15	"	29437	J. McCrodan, Front St., Belleville.	3 " 30c.	J. Sloane, Toronto....
			<i>District of Toronto—T. Kidd, Acting Inspector.</i>		
May 21	Maple Syrup.. . . .	30028	John O. Carpenter, Hamilton, Ont.	1½ pts., 35c.	Canada Maple Exchange, Durham, Q.
" 21	"	30029	Peter Calvin, Hamilton, Ont..	1 qt., 25c.	Beauce Maple Co., Que.
" 21	"	30031	E. B. Echlin, 346 James St., Hamilton, Ont.	3 tins, 35c.	J. A. Stephens, Hamilton, Ont.
" 22	"	30032	Christopher Bosthwick, Hamilton, Ont.	1 pt., 15c.	Vendor.....

SESSIONAL PAPER No. 14

MAPLE SUGAR COLLECTED IN MAY AND JUNE, 1906—*Continued.*

Inspector's Report.	RESULTS OF ANALYST'S TESTS		Analyst's Remarks.	Name of Analyst.	Remarks regarding Packages and Labels thereon.	Remarks by the Chief Analyst.
	Percentage on Dry Substance.					
	Lead sub-acetate precipitate.	Total Ash.				
In bulk.....	None.	0·154	Adulterated	A. Valin..	No makers' label on duplicate bottles.	Adulteration declared.
.....	0·10	0·161	" ..	"	Labelled 'genuine maple flavour syrup.'	"
In bulk....	3·07	0·661	Genuine....	"	.....	Genuine.
.....	0·18	0·246	Adulterated	"	Labelled 'Defiance maple syrup,' but not 'Compound' or Mixture.'	Adulterated.
In bulk ; no label..	0·08	0·115	" ..	"	No makers' label on duplicate bottle.	"
.....	0·30	0·192	" ..	"	Marked 'Maple Syrup, Compound,' the last word in as large letters as the others.	Adulteration declared.
Silver Crown Brand..	0·15	0·246	" ..	"	Marked 'Pure Mixture,' but not Compound or Mixture.	Adulterated.
Bottled for vendor ...	0·36	0·261	" ..	"	Marked Brome County Maple flavour syrup, but not 'Compound' or Mixture.	"
Beauce Brand.....	0·15	0·153	" ..	"	Marked 'Genuine Maple Flavour Syrup,' but not Compound or Mixture.	"
Defiance Brand.....	0·30	0·200	" ..	"	Not marked 'Compound' or Mixture but 'Pure Mixture.'	"
'Semper Idem'	0·06	0·215	" ..	"	Evidently sold as 'maple flavour syrup.'	Adulteration declared.
.....	0·58	0·500	" ..	"	" ..	"
.....	0·33	0·133	" ..	"	One of the duplicates bears a paper label 'maple flavour sugar made from choice maple sugar.'	"
.....	3·77	0·600	Genuine. ..	"	.....	Genuine.
.....	4·77	0·611	" ...	"	.....	"
.....	3·71	0·588	" ....	"	.....	"
Sold as pure syrup....	3·41	0·578	Genuine...	A. Valin..	Maple syrup dew drops	Genuine.
Branded maple flavour syrup.	0·10	0·076	Adulterated	" ..	Marked first pure sap, but not Compound or Mixture.	Adulterated.*
Quebec Brand.....	4·37	0·600	Genuine ...	" ..	Marked 'Compound' in very small letters.	Genuine.
Sample taken on the market in Hamilton	0·25	0·046	Adulterated	" ..	No makers name on duplicate bottles	Adulterated

* Maple syrup having been asked for.

DESCRIPTION OF 223 SAMPLES OF MAPLE SYRUP AND

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1906.			<i>District of Toronto—T. Kidd, Acting Inspector—Concluded.</i>		
May 22	Maple Syrup.....	30033	W. H. Ryckman & Co., Ham- ilton, Ont.	1 pt., 30c.	Beauce Maple Syrup Co., Quebec.
" 22	"	30034	Stanley Mills & Co., Hamilton, Ont.	1 pt., 18c.	Eastern Township Maple Sprup Co., Sutton, Que.
" 22	"	30035	Elizabeth Philip, Hamilton, Ont.	1 pt., 25c.	Lumsden Bros., Ham- ilton, Ont.
" 22	"	30036	James Turner & Co., Hamilton, Ont.	1 pck., 20c.	Sugars, Ltd., Mont- real, Que.
" 23	"	30037	Laing & Son, Hamilton, Ont. .	3 tins, 33c.	Sugars, Ltd., Mont- real, Que.
" 23	"	30038	H. P. Boyd, Cor. King and Hess Sts., Hamilton, Ont.	1 pt , 20c.	William Symington, 16 James St., Hamilton, Ont.
" 23	"	30039	Arthur Lavis, 234 King St., Hamilton, Ont.	1 qt., 25c.	William Kogh, Mont- real, Que.
" 23	"	30040	Peebels, Hobson & Co., King and Macnab Sts., Hamilton, Ont.	1 pt., 20c.	Philip Cassidy, Orms- town Station, Que.
" 25	"	30041	Gilard & Co., Hamilton, Ont. .	3 tins, 35c.	Sugars, Ltd., Montreal
" 25	"	30043	James Osborne & Son, Hamil- ton, Ont.	1 qt., 35c.	William Symington, Hamilton, Ont.
" 25	"	30046	H. McGregor, 475 King St., West, Hamilton Ont.	1 qt., 25c.	Balfour & Co., Hamil- ton, Ont.
" 26	"	30047	James McQuarry, Hamilton, Ont.	1 qt., 25c.	McCormick Manufac- turing Co., London, Ont.
" 26	"	30048	Bain & Adams, Hamilton, Ont.	1 pt., 25c.	Philip Brady, Stan- stead, Que.
" 26	"	30049	H. P. Willis, Hamilton, Ont. . .	1 tin, 35c.	Unknown
" 26	"	30050	Alexander Mann, 455 King St., East, Hamilton, Ont.	1 pt., 15c.	Cyris King, Hamilton, Ont.
" 26	"	30051	Mr. Colvin, Hamilton, Ont. . .	1 pt., 25c.	Unknown
" 21	Maple Sugar.	30030	Edward John McGrath, Ham- ilton, Ont.	1 lb., 15c.	Laing & Sons, 28 George St., Hamilton, Ont.
" 25	"	30042	James Osborne & Son, Hamil- ton, Ont.	1 lb., 25c.	William Symington, Hamilton, Ont.
" 25	"	30044	Harris Bros., 14 Market Sqr., Hamilton, Ont.	1½ lb., 28c.	Unknown
" 25	"	30045	J. M. Simmins, 423 King St., West., Hamilton, Ont	1 lb., 20c.	Laing & Sons, Hamil- ton, Ont.
			<i>District of London—T. Kidd, Inspector.</i>		
May 14	Maple Syrup.	30010	R. J. Rinkee, Kincardine, Ont.	2 pts., 20c.	Warren Bros. & Co., Toronto, Ont.
" 15	" ..	30012	R. A. Cline, Listowell, Ont. . .	1 pt., 20c.	Mr. Plestwell, Listo- well, Ont.

SESSIONAL PAPER No. 14

MAPLE SUGAR COLLECTED IN MAY AND JUNE, 1906—*Continued.*

Inspector's Report.	RESULTS OF ANALYST'S TESTS		Analyst's Remarks.	Name of Analyst.	Remarks regarding Packages and Labels thereon.	Remarks by the Chief Analyst.
	Percentage on Dry Substance.					
	Lead sub-acetate precipitate.	Total Ash.				
Branded Beauce Maple Syrup Co., Quebec.	Trace	0.215	Adulterated	A. Lemoine	No makers name on duplicate bottles.	Adulterated
Branded Eastern Township Maple Syrup and Sugar Exchange, Sutton, Que	4.46	0.961	Genuine....	" ..	" ..	Genuine.
Branded pure western	Trace	0.584	Adulterated	" ..	" ..	Adulterated.
Sold as pure goods....	2.95	0.692	Genuine...	" ..	Marked 'Sugar Bush brand.'	Genuine.
Bickle & Greening, brokers, Hamilton, sells for manufacture	Trace	0.484	Adulterated	" ..	Marked 'Pure Mixture' and 'pure sap' but not 'Compound or Mixture.'	Adulterated.
.....	4.80	1.015	Genuine....	" ..	No makers label on duplicate bottles.	Genuine.
Claimed to be pure maple syrup.	Trace	0.277	Adulterated	" ..	" ..	Adulterated.
.....	2.49	0.900	Genuine:..	" ..	" ..	Genuine.
Aurora brand.....	Trace	0.392	Adulterated	" ..	Marked 'Pure Mixture.'	Adulterated.
.....	3.29	0.884	Genuine...	" ..	.....	Genuine.
Branded maple syrup.	Trace	0.277	Adulterated	" ..	Not marked 'Compound' or 'Mixture.'	Adulterated.
Log Cabin brand.....	4.52	0.961	Genuine....	" ..	.....	Genuine.
.....	5.25	0.930	" ..	" ..	.....	"
Guaranteed pure.	3.97	0.807	" ..	" ..	Labelled 'put up by maple syrup and sugar exchange.'	"
.....	1.07	0.384	Adulterated	" ..	No makers label on duplicate bottles.	Adulterated.
.....	4.18	0.830	Genuine....	" ..	" ..	Genuine.
Pure maple syrup....	4.17	0.633	" ..	A. Valin..	.....	"
.....	4.00	0.600	" ..	" ..	.....	"
.....	7.33	1.060	" ..	" ..	.....	"
.....	4.48	0.788	" ..	" ..	.....	"
Vendor said it was compound mixture..	0.35	0.153	Adulterated	A. Valin..	No makers label on duplicate bottles....	Adulterated.
.....	3.68	0.784	Genuine....	" ..	" ..	Genuine.

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DESCRIPTION OF 223 SAMPLES OF MAPLE SYRUP AND

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1906			<i>District of London—T Kidd, Inspector—Concluded.</i>		
May 15	Maple Syrup.	30014	J. H. McDonald, Listowell, Ont.	1 pt., 15c.	John Sloane & Co., Toronto, Ont.
" 15	"	30015	T. H. Ellis & Co., Mount Forest, Ont.	1 qt., 35c.	James Lumbars, Toronto, Ont.
" 15	"	30016	W. J. Gilroy, Mount Forest, Ont.	1 pt., 25c.	E. B. Blair & Co., Toronto, Ont.
" 16	"	30017	J. J. Pritchard, Harriston, Ont.	1 pt., 15c.	Eastern Township Maple Syrup Sugar Exchange, Quebec.
" 16	Diamond Brand. ...	30019	Whitehead & Hunter, Walkerton, Ont.	1 pt., 15c.	W. H. Gillard & Co., Hamilton, Ont.
" 16	Maple Syrup.	30020	George Stothers, Walkerton, Ont.	1 pt., 15c.	D. S. Perrin, London, Ont.
" 16	"	30021	Charles Doepel, Hanover, Ont.	1 pt., 30c.	W. H. Gillard & Co., Hamilton, Ont.
" 16	"	30022	Thomas Poehlman, Hanover, Ont.	1 pt., 15c.	John Sloane & Co., Toronto, Ont.
" 18	"	30023	Stuebing & Co., Berlin, Ont. ..	1 pt., 15c.	James Lumbars, Toronto, Ont.
" 18	"	30024	Dunke & Co., Berlin, Ont.	1 pt., 20c.	G. B. Hall, Barnston, Que.
" 18	"	30025	Beck & Schell, Berlin, Ont.	1 pt., 15c.	James Lumbars, Toronto.
" 18	"	30026	Geo. W. Dodds, Waterloo, Ont.	1 pt., 20c.	Beauce Maple Co., Que.
" 18	"	30027	Cyrus Kraft, Waterloo, Ont. ..	1 pt., 25c.	Moynne Tea Co., 58 Colborne St., Toronto, Ont.
" 14	"	30008	T. A. Mills, Wingham, Ont. ...	1 pt., 15c.	Vendor
" 14	Maple Sugar.	30009	C. N. Griffin, Wingham, Ont. ..	1 lb., 15c.	G. B. Hall, Barnston, Que.
14	"	30011	P. McGraw, Kincardine, Ont. ..	2 lbs., 20c.	E. B. Blair & Co., Toronto, Ont.
15	"	30013	W. Krotz, Listowel, Ont.	1½ lbs., 15c.	John Sloane & Co., Toronto, Ont.
" 15	"	30018	J. J. Pichorn, Harriston, Ont. ..	1½ lbs., 15c.	William McKay, Granby, Que.
			<i>District of Manitoba—W. M. Conklin, Inspector.</i>		
May 16	Maple Syrup.	25767	T. A. Newman & Bros., Portage la Prairie.	1 pt., 20c.	Unknown ...
" 18	"	25770	McPherson, Trinty Co., Winnipeg.	1 pt., —	W. S. Bullock, Roxton Pond, Que.
" 22	"	25776	The Hudson's Bay Co., Winnipeg.	3 lbs., 45c.	The Eastern Township Maple Syrup & Sugar Exchange, Sutton, Q.

SESSIONAL PAPER No. 14

MAPLE SUGAR COLLECTED IN MAY AND JUNE, 1906 — *Continued.*

Inspector's Report.	RESULTS OF ANALYST'S TESTS		Analyst's Remarks.	Name of Analyst.	Remarks regarding Packages and Labels thereon.	Remarks by the Chief Analyst.
	Percentage on Dry Substance.					
	Lead sub-acetate precipitate.	Total Ash.				
.....	0.78	0.230	Adulterated	A. Valin.	No makers label on duplicate bottles.	Adulterated.
.....	0.46	0.423	" ..	" ..	Labelled maple syrup dew drops but not marked 'Compound.'	"
Made by W. S. Bullock, Roxton Pond, Que. Labelled pure maple syrup.	5.32	0.707	Genuine ...	" ..	.....	Genuine.
Warranted pure on the can.	4.40	0.661	" ....	" ..	.....	"
Branded maple syrup, Sugars, Ltd., Montreal. Pure mixture.	0.21	0.050	Adulterated	" ..	No makers label on duplicate bottles....	Adulterated.
Branded 1st quality maple syrup.	2.50	0.580	Genuine....	" ..	.....	Genuine.
Aurora Brand..	0.32	0.200	Adulterated	" ..	Marked 'pure mixture' but not simply 'Compound or Mixture.'	Adulterated.
.....	0.89	0.338	" ..	" ..	No makers label on duplicate bottles....	"
.....	0.29	0.206	" ..	" ..	" " ..	"
.....	1.53	0.576	Doubtful....	" ..	" " ..	Adulterated.
Branded on barrel maple flavour syrup.	0.30	0.184	Adulterated	" ..	" " ..	Adulterated.
Sold as maple flavour syrup.	0.29	0.192	" ..	" ..	" " ..	Adulteration declared.
Diamond Brand.....	0.59	0.246	" ..	" ..	Marked 'Pure Mixture' but not 'compound' or simply 'Mixture.'	Adulterated.
Cane sugar maple flavour compound.	1.23	0.361	" ..	" ..	No makers label on duplicate bottles.	Adulterated.*
.....	7.84	1.322	Genuine....	" ..	.....	Genuine.
.....	3.51	0.555	" ....	" ..	.....	"
.....	4.26	0.500	" ....	" ..	.....	"
Warranted pure maple sugar.	3.22	0.533	" ....	" ..	.....	"
Farmers syrup. Sold as pure.	3.94	0.715	Genuine....	A. Lemoine	No makers label on duplicate bottles....	Genuine.
Sold as pure.	3.97	0.230	Doubtful....	" ..	" " ..	Doubtful.
.....	4.92	0.807	Genuine....	" ..	" " ..	Genuine.

* Maple syrup having been asked for

DESCRIPTION OF 223 SAMPLES OF MAPLE SYRUP AND

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1906.			<i>District of Manitoba—W. M. Conklin, Inspector—</i> Concluded.		
May 23	Maple Syrup.	25777	J. A. McKerchar, Winnipeg.	18 ozs., 25c..	H. W. Munro, Apple Hill, Ont.
" 25	"	25778	Mutter & Lynch, Brandon.....	18 ozs., 25c..	Unknown.....
" 25	"	25779	J. T. Price, Brandon. ...	18 ozs., 25c..	Unknown.....
			<i>District of Calgary—W. Fletcher Inspector.</i>		
June 7	Maple Syrup.....	28652	Campbell, Wilson & Horn, wholesale, Calgary.	3 tins, 60c..	Vendors.....
" 7	"	28653	Codville, Smith Co., wholesale, Calgary.	3 " 48c..	Sugars, Ltd., Montreal
" 8	"	28655	A. Newham, retail, Calgary...	3 " 60c..	Campbell Bros. & Wilson, Winnipeg.
" 8	"	28658	Hudson Bay Co., retail, Calgary.	3 " \$1.20..	Imperial Syrup Co., Montreal.
" 7	Maple Sugar Cream.	28654	Codville, Smith Co., wholesale Calgary.	1½ lbs. 22c..	Sugars, Ltd., Montreal
" 8	"	28656	A. Newham, retail, Calgary...	1lb. 7 oz. 30..	Campbell Bros. & Wilson, Winnipeg.
" 8	"	28657	Hudson Bay Co., retail, Calgary	1½ lbs. 30c..	Nicholson & Bain, Winnipeg.
" 8	"	28659	Wing & Kidney, retail, Calgary	3 lbs. 60c..	Unknown.....
			<i>District of British Columbia—E. B. Parkinson, Inspector.</i>		
May 17	Empire Brand.....	28089	B. B. Smith, Cloverdale, B.C.	1 qt. 30c..	Ramsay Bros. Vancouver.
" 18	Canada Rock.....	28090	G. R. Ashwell, Chilliwack, B. C.	1 qt. 35c..	McBride & Kellman, Vancouver.
" 19	Maple Syrup.....	28092	T. S. Annandale, New Westminster, B.C.	½ gal. \$1.00.	J. Montgomery, Vancouver.
" 19	"	28094	C. Welsh, New Westminster, B.C.	1 qt. 35c..	Ramsay Bros., Vancouver.
" 21	"	28095	H. J. Hampton, Granville St., Vancouver	1 qt. 50c..	The Eastern Townships Maple Syrup and Sugar Exchange, Sutton, Que.
" 21	Tartan Brand.....	28097	A. DesBrisay, Granville St., Vancouver	1½ pts. 20c..	Balfour & Co., Hamilton, Ont.

SESSIONAL PAPER No. 14

MAPLE SUGAR COLLECTED IN MAY AND JUNE, 1906—*Continued.*

Inspector's Report.	RESULTS OF ANALYST'S TESTS		Analyst's Remarks.	Name of Analyst.	Remarks regarding Packages and Labels thereon.	Remarks by the Chief Analyst.
	Percentage on Dry Substance.					
	Lead sub-acetate precipitate.	Total Ash.				
.....	2.80	0.700	Genuine....	A. Lemoine	No makers label on duplicate bottles.	Genuine
.....	4.33	0.923	"	" ..	" " ..	"
.....	3.87	0.684	"	" ..	" " ..	"
Put up by Campbell Bros. & Wilson, Winnipeg, flavoured. Diamond Brand.	1.90	0.523	Doubtful ...	A. Valin.	Marked 'Maple Leaf Brand.'	Adulterated.
.....	None.	0.200	Adulterated	" ..	Not marked 'Compound' or 'Mixture.'	Adulterated.
.....	2.40	0.446	Doubtful ...	" ..	Marked 'Maple Leaf Brand.'	Adulterated.
.....	None.	0.170	Adulterated	" ..	Not marked 'Compound' or 'Mixture,' only 'Maple Flavor syrup.'	Adulterated.
.....	0.90	0.555	" ..	" ..	No marks on duplicate cakes.	Adulterated.
.....	1.75	0.244	" ..	" ..	"	
.....	3.50	0.533	Genuine....	" ..	.....	Genuine.
.....	3.82	0.555	" ..	" ..	.....	"
Guaranteed pure and keep in any climate. Made from pure rock maple sap.	2.00	0.430	Adulterated	A. Lemoine	Not marked 'Compound' or 'Mixture.'	Adulterated.
No brand or label on can.	0.52	0.307	" ..	" ..	"	"
Empire Brand.....	5.04	0.937	Genuine....	A. Valin.	.....	Genuine.
Guaranteed pure.....	1.04	0.292	Adulterated	" ..	No makers label on duplicate bottles.	Adulterated.
	5.90	0.707	Genuine....	" ..	.....	Genuine.
This syrup is guaranteed to be free from acids, chemicals, glucose or any other adulterations and to be absolutely pure maple and cane mixture, Sugars, Ltd., Montreal.	0.68	0.200	Adulterated	" ..	No makers label on duplicate bottles.	Adulterated.

DESCRIPTION OF 223 SAMPLES OF MAPLE SYRUP AND

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.
1906.			<i>District of British Columbia— E. B. Parkinson, Inspector. —Concluded.</i>		
May 21	Maple Syrup.....	28098	Foran Bros., Vancouver.....	½ gal. 80c..	D.H. McDougall, Martintown, Ont.
" 21	Log Cabin Brand....	28099	Kelly, Douglas & Co., Vancouver	3 pts. 75c..	The Towle Maple Syrup Co., St. Paul, Minn.
" 21	Red Cross Brand...	28100	Hudson Bay Co., Vancouver..	1 qt. 30c..	The Pacific Coast Syrup Co., 713 Sansom St., San Francisco.
" 21	Maple Syrup.....	28125	F. Fillion, Carrol street, Vancouver.	½ gal. 85c..	Isidore St. Jacque, St. Hermas, Que.
" 21	"	28127	McCulloch Bros., New Westminster Ave., Vancouver	1 pt. 25c..	F. M. Collins, Alta Crest Farm, East Farnham, Que.
" 22	"	28128	The City Grocery Co., New Westminster Ave. Vancouver	1½ pts. 35c.	F. N. Lynch, Granby, Que.
" 18	Maple Sugar.	28091	G. R. Ashwell, Chilliwack, B.C.	1 lb. 25c..	W. Paterson, Sons & Co., Brantford, Ont.
" 19	"	28093	C. Welsh, New Westminster, B.C.	1½ lbs. 20c..	Sugars, Ltd., Montreal
" 21	"	28096	H. J. Hampton, Granville St., Vancouver.	1½ lbs. 30c..	Eastern Townships Maple Syrup & Sugar Exchange, Sutton, Que.
" 22	"	28126	Ramsay Bros., Vancouver.....	1½ lbs. 25c..	Vendors.....

SESSIONAL PAPER No. 14

MAPLE SUGAR COLLECTED IN MAY AND JUNE, 1906—*Concluded.*

Inspector's Report.	RESULTS OF ANALYST'S TESTS		Analysts Remarks.	Name of Analyst.	Remarks regarding Packages and Labels thereon.	Remarks by the Chief Analyst.
	Percentage on Dry Substance.					
	Lead sub-acetate precipitate.	Total Ash.				
No brand or label on can.	5.72	0.923	Genuine....	A. Valin..	No makers label on duplicate bottles.	Genuine.
Certificate of purity. Guaranteed absolutely pure, free from glucose, acids or like adulterations in any package of Towles Log Cabin maple syrup.	0.40	0.230	Adulterated	" ..	Not marked 'Compound' or 'Mixture.'	Adulterated.
Strictly pure. Canada maple syrup, Red Cross Brand maple syrup is the best. Guaranteed to give satisfaction.	0.31	0.608	" ..	" ..	"	"
.....	3.87	0.592	Genuine....	" ..	.....	Genuine.
No brand or label on jar.	2.92	0.698	" ..	" ..	.....	"
No brand or label on barrel.	3.50	0.615	" ..	" ..	.....	"
.....	2.40	0.300	Adulterated	" ..	In tablets ; unlabelled.	Adulterated.
Twin blocks maple sugar is being submitted from time to time for analysis.	2.53	0.555	Genuine....	" ..	.....	Genuine.
Guaranteed pure.....	3.44	0.920	" ..	" ..	.....	"
This sugar is bought by the car load from J. B. Renaud & Co., and run into moulds as per sample by vendors.	7.55	1.020	" ..	" ..	.....	"

APPENDIX P.**BULLETIN No. 121.—WHOLE MILK, SKIM MILK, BUTTERMILK AND CREAM, 1906.**

OTTAWA, June 27, 1906.

W. J. GERALD, Esq.,

Deputy Minister of Inland Revenue.

SIR,—On the 3rd April, 1906, the Department advised that samples of milk should be obtained from the various collection districts of the Dominion, and that these were to be analysed by the various district analysts as well as in this laboratory. Accordingly the food inspectors were instructed to collect, not only samples of whole milk, but also of skim milk, buttermilk and cream where these latter were offered for sale, and to use for the preservation of the samples small quantities of bichromate of potash. These were supplied to the food inspectors from this laboratory in the shape of powders folded up in papers, and the inspectors, in the case of the distant districts, were instructed to make use of them in the following manner:—‘1 pint is to be taken for each sample and divided into three parts, eight ounce bottles being used for the latter. In order to preserve the milks or cream a small quantity of bichromate of potash is to be introduced into each bottle in the proportion of nearly 0·1 to 100 per cent of the sample. Under a separate cover you will receive the powders in papers, each containing 0·2 grammes. In collecting 1 pint = 567 cubic centimetres you will have 189 c. c. m. in each bottle.’ These instructions were sent to the food inspectors in Nova Scotia, Prince Edward Island, New Brunswick, Manitoba, Calgary and British Columbia, but in the case of the collection districts of Quebec, St. Hyacinthe, Montreal, Ottawa, Kingston, Toronto and London only half the quantity of preservative was supplied. In the case, however, of some of the samples from the last named districts, and for which only 0·05 grammes bichromate per 100 c. c. m. had been used, they were found to be slightly sour or that butter had separated, and, therefore, it may be concluded that the minimum quantity of the preservative to be used for all samples is 0·1 gramme per 100 c. c. m. The samples from British Columbia and Nova Scotia all arrived at Ottawa in excellent condition.

The food inspectors are always instructed to take care to thoroughly agitate the milk in the receptacle containing it before sampling, and, of course, the same rule applies when dividing the sample into its three parts. In former reports it has been often pointed out that these precautions were frequently neglected, and this appears also to have been the case during the present collection. Indeed it would seem, with reference to a few extreme cases, as if such an amount of separation had taken place without subsequent mixing, as to cause the cream to be sent to the district analyst and the inferior milk to this laboratory or *vice versa*. I have therefore thought it best to recommend the publication of all the results obtained in the examination of these milks so that it might be possible to point out to what extent and by whom the neglect of the precautions above mentioned had taken place. In a great many samples there is close agreement between the analyses made by the district analysts and those of the assistant analysts here, so that it would seem reasonable when great differences occur to attribute the cause, in the greatest number of cases, to imperfect mixing previous to dividing the sample.

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The following is a statement of the number of samples collected, in which their nature is specified, as well as the districts where they were obtained :—

Name of Inspection District.	Whole milk.	Skim milk.	Butter-milk.	Cream.	Total.
Nova Scotia.....	31	1	0	0	32
Prince Edward Island.....	16	0	0	0	16
New Brunswick.....	31	0	1	2	34
Quebec.....	25	0	0	7	32
St. Hyacinthe.	30	0	0	2	32
Montreal	29	0	1	2	32
Ottawa.....	30	0	1	6	37
Kingston	23	0	0	1	24
Toronto.....	31	0	0	1	32
London.....	24	0	0	0	24
Manitoba.....	24	0	0	0	24
Calgary.....	11	0	0	5	16
British Columbia.....	27	0	2	3	32
	332	1	5	29	367

In the tabulated statement appended to this report will be found the full particulars regarding the source of these samples, and the results of analysing the separate parts both by the district analysts and the assistant analysts of this laboratory, the latter being always in duplicate. The close agreement in these figures from examining most of the duplicates of the same samples will be observed, and also the magnitude of the differences. Taking the latter in the case of the most valuable constituent, the butter fat, I have classified them according to the degree of discrepancy, and obtained the following figures :—

Name of Collection District.	Difference in percentage of Butter Fat.					Duplicates not Analysed.	Total.
	0·0 to 0·25	0·25 to 0·50	0·50 to 0·75	0·75 to 1	Over 1		
Nova Scotia.....	21	5	1	1	1	3	32
Prince Edward Island.....	11	4	0	0	1	0	16
New Brunswick.....	22	7	2	0	3	0	34
Quebec.....	18	3	4	1	1	5	32
St. Hyacinthe..	11	8	6	4	3	0	32
Montreal.....	9	9	12	2	0	0	32
Ottawa.....	22	1	3	0	10	1	37
Kingston.....	13	6	0	2	3	0	24
Toronto.....	14	5	5	6	1	1	32
London.....	17	3	0	1	0	3	24
Manitoba.....	17	3	0	2	0	2	24
Calgary.....	10	2	4	0	0	0	16
British Columbia.....	12	13	6	0	1	0	32
	197	69	43	19	24	15	367

Assuming that those samples which show a difference in the percentage of butter fat under 0·25 only were collected and divided with the proper precautions, it follows that the proportion of those obtained in the different districts will furnish an indication as to the degree of care exercised by the different inspectors. The percentage of such samples to the whole number collected (excluding from the latter the samples whose duplicates were not examined owing to loss or breakage) in the various districts is as follows :—

London : Mr. Thomas Kidd.....	80·9
Manitoba : Mr. W. M. Conklin.....	77·3
Prince Edward Island : Mr. Thomas Moore.....	68·7
Quebec : Mr. C. E. Roy.....	66·6
Nova Scotia : Mr. R. J. Waugh.....	65·6
New Brunswick : Mr. J. C. Ferguson.....	64·7
Calgary : Mr. R. W. Fletcher	62·5
Ottawa : Mr. A. E. Sanderson.....	61·1
Kingston : Mr. James Hogan.	54·1
Toronto : Mr. Thomas Kidd.....	45·1
British Columbia : Mr. E. B. Parkinson.....	37·5
St. Hyacinthe : Mr. J. C. Rouleau.....	34·4
Montreal : Mr. J. J. Costigan.....	28·1

According to the preceding table, out of 367 samples collected, in 15 cases duplicate analyses are not available. Among the remaining 352, there are 155 samples, the analyses of whose parts show differences exceeding 0·25 per cent butter fat. This is quite a large number (44 per cent), and it is possible that in many of these, the conclusions reached by the district analysts have been invalidated by the unreliable nature of the sample upon which they operated. I have therefore been obliged, in order to make the work which is now being reported of some use, to calculate the average of the two analyses and introduce the results into a column in the tabulated statement headed: ‘Averages of analyses of samples showing differences over 0·25 per cent ‘butter fat.’ In cases where these new figures do not support the finding of the district analyst, I have omitted his remarks and substituted others (distinguished by the initials T. M.) in accordance with the principles explained in Bulletin No. 43, p. 2, from which the following is a quotation :—“In applying these expressions to whole ‘milk, it is deemed reasonable to use the term ‘watered,’ when the ‘other’ or ‘non-fatty solids of a sample are under 8 per cent, and the butter fat percentage is ‘below the average (3·75 per cent), or at least not above it. When the ‘other solids’ ‘show the normal percentage—not under 8·5 per cent, and a lower amount of fat than ‘3 per cent, it is characterized as ‘partly skimmed.’ When such a sample falls ‘below 2 per cent butter fat, the word ‘skimmed’ would be justified. The ‘expression ‘under average’ has been used for the purpose of indicating those ‘samples whose adulteration cannot be pronounced upon with certainty, but which are ‘in point of quality inferior to those marked ‘genuine.’ ‘Under average in total ‘solids’ is the expression used when these fall below 12 per cent, and the sample cannot positively be termed ‘watered.’ When the butter fat ranges between 3 and 3·5 per cent, the non-fatty solids being normal, the sample is said to be ‘under average in cream,’ and when the non-fatty solids fall below 8·25 per cent, the sample is said to be ‘under average’ so far as regards the latter constituents.

After the corrections have been made as above described, it becomes possible to classify the 332 samples of whole milk which were collected, after deducting those pronounced to be ‘partly cream,’ which are 13 in number. The remaining 319 samples classified according to quality and locality give the figures shown in the following table :—

Name of Inspection District.	Genuine.	Doubtful.	Adulterated.	Total samples Whole Milk.
Nova Scotia.....	24	7	0	31
Prince Edward Island.....	8	6	2	16
New Brunswick.....	21	7	0	28
Quebec.....	17	5	2	24
St. Hyacinthe.....	21	3	2	26
Montreal.....	15	8	6	29
Ottawa.....	19	4	4	27
Kingston.....	9	12	2	23
Toronto.....	13	11	7	31
London.....	10	8	6	24
Manitoba.....	14	4	5	23
Calgary.....	3	4	3	10
British Columbia.....	15	6	6	27
	189	85	45	319

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According to this statement the whole milks collected this year contained the following percentages :—

Of Genuine samples.....	59·2 per cent.
“ Doubtful samples.....	26·7 “
“ Adulterated samples.....	14·1 “
	100·0

Compared with the proportions recorded in former Bulletins these figures show a rather unfavourable result :—

Collections.	PERCENTAGES OF		
	Genuine.	Doubtful.	Adulterated.
November and December, 1895.....	70·8	22·3	6·9
September and October, 1897.....	65·0	24·0	11·0
October and November, 1898.....	73·0	23·0	4·0
September and October, 1901.....	66·7	29·3	4·0
November and December, 1903.....	70·9	18·8	10·3
April, May and June, 1906.....	59·2	26·7	14·1

With reference to skim milk, although all the food inspectors had instructions to obtain samples when it was offered for sale, there is only one sample described in the whole statement (No. 27421 from Nova Scotia). No better proof could be had that the article is not popular, although its contents in nutrients are by no means to be despised.

Buttermilk seems to be held in greater favour because five samples of it were obtained, whose butter fat contents range from 0·5 to 0·80 per cent.

The 29 samples of ‘cream’ collected vary in their butter fat contents from 12·63 to 33·51 per cent. The cream containing the last mentioned percentage was no doubt intended for making butter. In Ottawa, so far as regards the cream offered for sale, a distinction has been made between ‘whipping’ and ‘table’ cream, the former, of which qualities is supposed to contain from 25 to 30 per cent butter fat, while ‘table’ cream has usually from 16 to 20. It would seem desirable that cream should be graded as in other countries. For instance, in Copenhagen, the Milk Supply Company sells at different prices, ‘crème à fouetter,’ ‘crème No. 1,’ and ‘crème No. 2.’* In Canada, however, it would probably be going far enough to suggest that the following standards should be established :—

Whipping cream, not less than 25 per cent butter fat.
Table “ “ 17·5 “

I have the honour to be, sir,

Your obedient servant,

THOMAS MACFARLANE,
Chief Analyst.

See a recently issued brochure entitled a Société Laitière d’approvisionnement de Copenhague 1906.

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RESULTS of examining 367 Samples of Milk, Buttermilk and Cream

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Pints.	Cents.		
1906.			<i>District of Nova Scotia —R. J. Waugh, Inspector.</i>				
April 18	Milk.	27413	J. Macdonald, Halifax, N.S.	1	4	S. Dewis, Shubenacadie, N.S.	Brought to city by train daily.
" 18	"	27414	H. D. Grant, Halifax, N.S.	1	4	A. Etter, Shubenacadie, N.S.	" "
" 18	"	27415	Jas. P. Murray, Halifax, N.S.	1	4	C. Crombe, Shubenacadie, N.S.	" "
" 18	"	27416	S. A. Purcell, Halifax, N.S.	1	4	G. S. Withrow, Shubenacadie.	Wrong label on bottle to department.
" 18	"	27417	O. Upham, Halifax, N.S.	1	4	M. Logan, Milford, N. S.	Train milk brought to city daily.
" 18	"	27418	J. Flemming, Halifax, N.S.	1	4	A. Fisher, Alton, N.S.	" "
" 18	"	27419	G. H. Kent, Halifax, N.S.	1	4	R. Kent, McKay's Siding.	" "
" 18	"	27420	Scotia Pure Milk Co., Halifax, N.S.	1	4	Vendors.....	Sample taken at factory.
" 18	Skimmed Milk	27421	" "	1	4	"	" "
" 18	Milk.	27422	J. P. Buckley, Halifax, N.S.	1	4	Scotia Pure Milk Co., Halifax, N.S.	The vendor is a shopkeeper.
" 18	"	27423	A. Payne, Halifax, N. S.	1	4	R. Warner, Halifax, N.S.	" "
" 18	"	27424	A. D. Bruce, Halifax, N.S.	1	4	P. L. Murray, Halifax, N.S.	" "
" 19	"	27425	H. Brown, Halifax, N. S.	1	4	A. Brenton, Stewiacke, N.S.	Brought to city daily by train.
" 19	"	27426	A. Bond, Halifax, N. S.	1	4	B. Withrow, Elmsdale, N.S.	" "
" 19	"	27427	G. A. Frasher, Halifax, N.S.	1	4	J. A. Macdonald, Milford, N.S.	" "
" 19	"	27428	R. F. Osman, Halifax, N.S.	1	4	H. Frasher, Shubenacadie, N.S.	" "
" 19	"	27429	J. B. Harvey, Halifax, N.S.	1	4	B. Fulmer, Shubenacadie, N.S.	" "
" 19	"	27430	Scotia Pure Milk Co., N.S.	1	4	J. Etter, Shubenacadie, N.S.	Taken at factory after coming from train.
" 19	"	27431	" "	1	4	G. E. Forbes, Milford, N.S.	" "

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by the Public Analysts and in the Inland Revenue Laboratory.

AVERAGE OF ANALYSES OF SAMPLES SHOWING DIFFERENCES OVER 0.25 P.C. BUTTER FAT			RESULTS OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks by District and Chief Analysts.
Butter fat.	Other solids.	Total solids	Specific gra- vity at 15° C.	Water.	Butter fat.	Other solids.	Total solids.			
p.c.	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.			
.....	1.0332	87.40	3.93	8.67	12.60	M. Bowman	27413	Unadulterated.
.....	1.0323	87.15	3.71	9.14	12.85	Miss S. E. Wright.	27413	
.....	87.15	3.74	9.15	12.85	.....	.....	.....
.....	1.0322	85.99	5.00	9.01	14.01	M. Bowman	27414	"
.....	1.0312	85.80	4.92	9.28	14.20	Miss S. E. Wright.	27414	
.....	85.81	4.89	9.30	14.19	.....	.....	.....
.....	1.0319	87.06	4.47	8.47	12.94	M. Bowman	27415	"
4.31	8.80	13.11	1.0323	86.73	4.13	9.14	13.27	Miss S. E. Wright.	27415	
.....	86.73	4.14	9.13	13.27	.....	.....	.....
.....	1.0329	86.24	4.64	9.12	13.75	M. Bowman	27416	"
4.47	9.26	13.73	1.0333	86.30	4.30	9.40	13.70	Miss S. E. Wright.	27416	
.....	86.27	4.28	9.45	13.73	.....	.....	.....
.....	1.0291	86.18	5.80	8.02	13.82	M. Bowman. ...	27417	Below average in solids not fat.
.....	1.0292	85.86	5.62	8.52	14.14	Miss S. E. Wright.	27417	
.....	85.88	5.63	8.49	14.12	.....	.....	.....
.....	1.0303	86.91	4.63	8.46	13.09	M. Bowman ..	27418	Unadulterated.
.....	1.0312	86.67	4.49	8.74	13.33	Miss S. E. Wright.	27418	
.....	86.70	4.52	8.78	13.30	.....	.....	.....
.....	1.0317	86.77	4.45	8.78	13.23	M. Bowman	27419	"
.....	1.0312	86.99	4.39	8.62	13.01	Miss S. E. Wright.	27419	
.....	86.95	4.35	8.70	13.05	.....	.....	.....
.....	1.0324	88.10	3.37	8.53	11.90	M. Bowman	27420	Below average in fat.
3.22	8.67	11.89	1.0323	88.12	3.06	8.82	11.88	Miss S. E. Wright.	27420	
.....	88.09	3.04	8.87	11.91	.....	.....	.....
.....	1.0347	90.09	0.44	9.47	9.91	M. Bowman	27421	Unadulterated.
0.86	3.88	9.74	1.0363	90.44	1.26	8.30	9.56	Miss S. E. Wright.	27421	
.....	90.43	1.27	8.30	9.57	.....	.....	.....
.....	1.0312	87.99	3.50	8.51	12.01	M. Bowman	27422	Below average in but- ter fat. (T.M.)
3.30	8.76	12.06	1.0333	87.90	3.09	9.01	12.10	Miss S. E. Wright.	27422	
.....	87.92	3.06	9.02	12.08	.....	.....	.....
.....	1.0320	87.77	4.04	8.19	12.23	M. Bowman	27423	Unadulterated. (T.M.)
3.73	8.54	12.27	1.0312	87.72	3.42	8.86	12.28	Miss S. E. Wright.	27423	
.....	87.70	3.42	8.88	12.30	.....	.....	.....
.....	1.0323	86.74	4.42	8.84	13.26	M. Bowman	27424	"
.....	1.0323	86.51	4.30	9.19	13.49	Miss S. E. Wright.	27424	
.....	86.48	4.18	9.34	13.52	.....	.....	.....
.....	1.0303	86.33	5.13	8.54	13.67	M. Bowman	27425	"
5.00	8.70	13.70	1.0312	86.28	4.86	8.86	13.72	Miss S. E. Wright.	27425	
.....	86.31	4.86	8.83	13.69	.....	.....	.....
.....	1.0322	84.64	6.17	9.19	15.36	M. Bowman	27426	Partly cream.
.....	1.0312	84.40	6.14	9.46	15.60	Miss S. E. Wright.	27426	
.....	84.36	6.13	9.51	15.64	.....	.....	.....
.....	1.0310	86.88	4.51	8.61	13.12	M. Bowman	27427	Unadulterated.
.....	1.0312	86.66	4.32	9.02	13.34	Miss S. E. Wright.	27427	
.....	86.71	4.30	8.99	13.29	.....	.....	.....
.....	1.0322	86.86	4.26	8.88	13.14	M. Bowman	27428	"
4.92	9.14	14.06	1.0323	85.05	5.56	9.39	14.95	Miss S. E. Wright.	27428	
.....	85.03	5.57	9.40	14.97	.....	.....	.....
.....	1.0312	87.54	4.07	8.39	12.46	M. Bowman	27429	"
.....	1.0312	87.40	3.97	8.63	12.60	Miss S. E. Wright.	27429	
.....	87.39	3.96	8.65	12.61	.....	.....	.....
.....	1.0322	87.56	3.76	8.68	12.44	M. Bowman	27430	"
.....	1.0333	87.36	3.64	9.00	12.64	Miss S. E. Wright.	27430	
.....	87.39	3.67	8.94	12.61	.....	.....	.....
.....	1.0325	87.90	3.41	8.69	12.10	M. Bowman	27431	Below average in fat.
.....	1.0353	87.76	3.39	8.85	12.24	Miss S. E. Wright.	27431	
.....	87.77	3.41	8.82	12.23	.....	.....	.....

RESULTS of examining 367 Samples of Milk, Buttermilk and Cream

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Pints.	Cents.		
1906			<i>District of Nova Scotia.—Concluded.</i>				
April 19	Milk :	27432	Scotia Pure Milk Co., N.S.	1	4	Wm. Doods, Shubenacadie, N.S.	Taken at factory after coming from train.
" 19	"	27433	" "	1½	4	E. Carroll, Milford, N. S.	" "
" 19	"	27434	" "	1	4	D. Snide, Shubenacadie, N.S.	" "
" 19	"	27435	" "	1		J. L. Wilson, Lower Stewiacke, N.S.	" "
" 19	"	27436	" "	1	4	H. A. Stewart, Shubenacadie, N.S.	" "
" 20	"	27437	B. F. Grant, Dartmouth, N.S.	1	4	J. F. Grant, Eastern Passage Road.	Sample taken from can in delivery wagon.
" 20	"	27438	G. C. Walker, Dartmouth, N.S.	1	4	G. C. Walker, Lake Road.	" "
" 20	"	27439	Mrs. Dares, Dartmouth, N.S.	1	4	Scotia Pure Milk Co., Halifax, N.S.	The vendor is a shopkeeper.
" 24	"	27442	H. Eagles, Kentville, N.S.	1	3	Not known	Sample taken from delivery wagon.
" 24	"	27443	F. W. Wickwire, Kentville, N.S.	1	3	Vendor	" "
" 24	"	27444	E. Pyke, Kentville, N. S.	1	3	"	" "
" 26	"	27452	J. A. Etter, Shubenacadie, N.S.	1	4	"	" "
" 26	"	27453	Jas. McKenzie, Shubenacadie, N.S.	1	3	"	" "
			<i>District of Prince Edward Island—T. Moore, Inspector.</i>				
April 19	Milk	28268	E. Cameron, Charlottetown.	1	3	J. F. Roper, East Royalty.	
" 19	"	28269	" "	1	3	Percy Mutch, Southport.	
" 19	"	28270	Aubery Mutch, Southport, Charlottetown.	1	3	A. Mutch, Southport.	
" 19	"	28277	James Easton, Charlottetown.	1	3	Vendor	
" 19	"	28272	Wallace Wheatley, East Royalty.	1	3	"	
" 19	"	28273	Miller Matheson, Brackley Point Road	1	3	"	
" 20	"	28274	Rogers Farquharson, Southport.			"	

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by the Public Analysts and in the Inland Revenue Laboratory—Continued.

AVERAGE OF ANALYSIS OF SAMPLES SHOWING DIFFERENCES OVER 0·25P.C. BUTTER FAT			RESULTS OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks by District and Chief Analysts.
Butter fat.	Other solids.	Total solids.	Specific gra- vity at 15° C.	Water.	Butter fat.	Other solids.	Total solids.			
p.c.	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.			
.....	1·0330	86·40	4·48	9·12	13·60	M. Bowman.....	27432	Unadulterated.
.....	1·0333	86·29	4·27	9·44	13·71	Miss S. E. Wright	27432	
.....		86·24	4·23	9·53	13·76			
.....	1·0310	87·88	3·48	8·64	12·12	M. Bowman.....	27433	"
.....	1·0312	87·72	3·59	8·69	12·28	Miss S. E. Wright	27433	
.....		87·70	3·57	8·73	12·30			
.....	1·0313	87·63	3·69	8·68	12·37	M. Bowman	27434	"
.....	1·0312	87·35	3·83	8·82	12·65	Miss S. E. Wright	27434	
.....		87·36	3·85	8·79	12·64			
.....	1·0319	87·61	3·57	8·82	12·39	M. Bowman.....	27435	"
.....	1·0313	87·47	3·55	8·98	12·53	Miss S. E. Wright	27435	
.....		87·45	3·52	9·03	12·55			
.....	1·0324	87·74	3·39	8·87	12·26	M. Bowman...	27436	Below average in fat.
.....	1·0323	87·50	3·45	9·05	12·50	Miss S. E. Wright	27436	
.....		87·50	3·40	9·10	12·50			
.....	1·0319	85·90	5·15	8·95	14·10	M. Bowman	27437	Unadulterated.
.....	1·0323	85·54	5·16	9·30	14·46	Miss S. E. Wright	27437	
.....		85·53	5·20	9·27	14·47			
.....	1·0298	87·60	4·14	8·26	12·40	M. Bowman.....	27438	"
.....	1·0312	87·24	4·09	8·67	12·76	Miss S. E. Wright	27438	
.....		87·22	4·07	8·71	12·78			
.....	1·0319	88·33	3·01	8·66	11·67	M. Bowman.....	27439	Below average in fat.
.....	1·0312	88·03	2·95	9·02	11·97	Miss S. E. Wright	27439	
.....		88·04	2·93	9·03	11·96			
.....	1·0310	87·73	3·78	8·49	12·27	M. Bowman.....	27442	Unadulterated.
.....	1·0304	87·80	3·97	8·23	12·20	A. Lemoine.	27442	
.....		87·75	3·92	8·33	12·25			
.....	1·0299	87·52	3·82	8·66	12·48	M. Bowman.....	27443	"
.....		Chur ned.						
.....	1·0299	88·07	3·77	8·16	11·93	"	27444	Below average in solids not fat.
.....		Chur ned.						
.....	1·03 9	87·05	4·16	8·79	12·95	"	27452	Unadulterated.
.....		Chur ned.						
.....	1·0308	87·03	4·41	8·56	12·97	"	27453	"
.....	1·0304	87·00	4·42	8·58	13·00	A. Lemoine.....	27453	
.....		87·34	3·98	8·68	12·66			
.....	1·0320	88·05	3·38	8·57	11·95	M. Bowman.....	28268	Below average in fat.
.....		88·00	3·39	8·70	12·00			
.....	1·0320	88·07	3·25	8·68	11·93	A. Lemoine.	28268	
.....	1·0327	87·66	3·83	8·51	12·34	M. Bowman.....	28269	Unadulterated.
.....		87·47	3·72	8·81	12·53			
.....	1·0309	87·63	3·61	8·76	12·37	A. Lemoine.....	28269	
.....	1·0310	87·95	3·71	8·34	12·05	M. Bowman ...	28270	"
.....		88·07	3·30	8·63	11·93			
3·52	8·42	11·94	1·0323	88·18	3·32	8·50	11·82	Miss E. Davidson.	28270	
.....	1·0318	87·48	3·81	8·71	12·52	M. Bowman....	28271	"
.....		87·25	3·89	8·86	12·75			
.....	1·0312	87·27	3·83	8·90	12·73	Miss E. Davidson.	28271	
.....	1·0306	88·45	3·36	8·19	11·55	M. Bowman.....	28272	Below average in fat and other solids.
.....		88·43	3·09	8·48	11·57			
3·22	8·34	11·56	1·0312	88·38	3·08	8·54	11·62	Miss E. Davidson.	28272	
.....	1·0246	90·62	2·87	6·51	9·38	M. Bowman.....	28273	Watered.
.....		90·49	2·66	6·85	9·51			
.....	1·0260	90·61	2·67	6·72	9·39	Miss E. Davidson.	28273	
.....	1·0319	88·21	3·45	8·34	11·79	M. Bowman.....	28274	Below average in fat and other solids.
.....		88·18	3·30	8·52	11·82			
.....	1·0312	88·18	3·31	8·51	11·82	Miss E. Davidson.	28274	

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RESULTS of examining 367 Samples of Milk, Buttermilk and Cream

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Pints.	Cents.		
1906.			<i>District of Prince Edward Island—Con.</i>				
April 20	Milk.....	28275	William Miller, Marshfield.	1	3	Vendor.....	
" 20	"	28276	Hammond Kelly, Southport.	1	3	"	
" 23	"	28277	George Simpson, Kensington.	1	3	"	
" 24	"	28279	G. M. Price, Summerside.	1	3	"	
" 24	"	28280	L. J. Pickering, Summerside.	1	3	"	
" 24	"	28281	Joseph McNeill, Summerside.	1	3	"	
" 24	"	28282	J. W. Callbeck, Summerside.	1	3	"	
" 24	"	28283	Thos. Glover, Summerside.	1	3	"	
" 26	"	28286	J. R. Enman, Charlottetown Royalty.	1	3	"	
			<i>District of New Brunswick—J. C. Ferguson, Inspector.</i>				
April 16	Whole Milk...	24152	The Alderbrook Dairy, Dunlop & Noakes, 154 Charlotte St., St. John, N.B.	3	5	W. V. Darling, Jubilee Stn., I.C.R., King's Co., N.B.	Taken from cans while being received at dairy from R.R. stn.
" 16	" ..	24153	" ..	3	5	A. R. Wetmore, Jubilee Stn., I.C.R., King's Co., N.B.	Taken from cans while being received at dairy from milk train.
" 16	" ..	24154	" ..	3	5	J. E. Titus, Bloomfield Stn., I.C.R., King's Co., N.B.	" ..
" 16	" ..	24155	" ..	3	5	Daniel Michaud, Parish of Simonds, St. John Co., N.B.	Taken from cans while being delivered to dairy from milk train. These vendors deliver milk to customers in glass bottles filled from cans as received.
17	" ..	24156	St. John Creamery, W. H. Bell, 92 King St., St. John, N.B.	3	5	Charles Titus, Passekeag, I.C.R. Stn., King's Co., N.B.	Taken from cans while being delivered to creamery from milk train and being sent to customers.

SESSIONAL PAPER No. 14

by the Public Analysyts and in the Inland Revenue Laboratory—Continued.

AVERAGE OF ANALYSES OF SAMPLES SHOWING DIFFERENCES OVER 0·25 P.C. BUTTER FAT			RESULTS OF ANALYSIS.					Name of Analyst	No. of Sample.	Remarks by District and Chief Analysts.
Butter fat.	Other solids.	Total solids.	Specific gra- vity at 15° C.	Water.	Butter fat.	Other solids.	Total solids.			
p.c.	p. c.	p. c.		p.c.	p.c.	p.c.	p.c.			
.....	.....	.....	1·0307	86·90	4·56	8·54	13·16	M. Bowman.....	28275	Unadulterated.
				86·76	4·66	8·58	13·24			
			1·0312	86·69	4·60	8·71	13·31	Miss E. Davidson.	28275	
.....	.....	.....	1·0310	88·33	3·43	8·24	11·67	M. Bowman	28276	Below average in fat and other solids.
				88·08	3·48	8·44	11·92			
			1·0323	88·06	3·12	8·82	11·94	Miss E. Davidson.	28276	
.....	.....	.....	1·0310	87·21	4·22	8·57	12·79	M. Bowman.....	28277	Unadulterated.
				87·45	3·99	8·56	12·55			
			1·0312	87·41	4·08	8·51	12·59	Miss E. Davidson.	28277	
.....	.....	.....	1·0306	89·52	2·77	7·71	10·48	M. Bowman.....	28279	Watered.
				89·76	2·26	7·98	10·24			
2·58	7·80	10·38	1·0312	89·72	2·39	7·89	10·28	Miss E. Davidson.	28279	
.....	.....	.....	1·0309	88·20	3·78	8·02	11·80	M. Bowman.....	28280	Doubtful.
				88·50	3·21	8·29	11·50			
3·52	8·19	11·71	1·0323	88·38	3·23	8·39	11·62	Miss E. Davidson.	28280	
.....	.....	.....	1·0310	83·15	4·27	8·58	12·85	M. Bowman.....	28281	Unadulterated.
				86·82	4·27	8·91	13·18			
			1·0328	86·84	4·20	8·96	13·16	Miss E. Davidson.	28281	
...	.....	.....	1·0327	87·24	3·91	8·85	12·76	M. Bowman.....	28282	"
				87·00	4·02	8·98	13·00			
			1·0333	87·17	3·98	8·85	12·83	Miss E. Davidson.	28282	
.....	.....	.....	1·0313	86·72	4·57	8·71	13·28	M. Bowman.....	28283	"
				87·71	3·34	8·95	12·29			
3·97	8·80	12·77	1·0343	87·74	3·37	8·89	12·26	Miss E. Davidson.	28283	
.....	.....	.....	1·0308	88·17	3·30	8·53	11·83	M. Bowman.....	28286	Below average in fat.
				88·36	3·18	8·46	11·64			
			1·0323	88·55	3·04	8·41	11·45	Miss E. Davidson.	28286	
.....	.....	.....	1·0330	87·18	3·81	9·01	12·82	M. Bowman.....	24152	Unadulterated.
			1·0323	86·77	4·02	9·21	13·23	Miss S. E. Wright.	24152	
				86·76	4·05	9·19	13·24			
.....	.....	.....	1·0323	87·90	3·40	8·70	12·10	M. Bowman.....	24153	Below average in fat.
			1·0333	87·51	3·28	9·21	12·49	Miss S. E. Wright.	24153	
				87·56	3·22	9·22	12·44			
.....	.....	.....	1·0319	88·94	3·29	7·76	11·05	M. Bowman.....	24154	Probably watered.
			1·0292	88·66	3·14	8·20	11·34	Miss S. E. Wright.	24154	
				88·67	3·14	8·19	11·33			
.....	.....	.....	1·0319	86·34	4·77	8·89	13·66	M. Bowman.....	24155	Unadulterated.
5·06	8·64	13·70	1·0282	86·25	5·40	8·35	13·75	Miss S. E. Wright.	24155	
				86·25	5·35	8·40	13·75			
.....	1·0308	87·18	4·06	8·76	12·82	M. Bowman.....	24156	"
			1·0302	87·06	4·15	8·79	12·94	Miss S. E. Wright.	24156	
				87·09	4·15	8·76	12·91			

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RESULTS of examining 367 Samples of Milk, Buttermilk and Cream

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Pints.	Cents.		
1906.			<i>District of New Brunswick—Continued.</i>				
April 17	Whole Milk..	24157	St. John Creamery, W. H. Bell, 92 King St., St. John, N.B.	3bts	5	W. A. Saunders, Passekeag, I.C.R. Stn., King's Co., N.B.	Taken from cans while being delivered to creamery and being sent to customers
" 17	" ..	24158	Clover Farm Dairy, H. M. Floyd, prop., 38 Sydney St., St. John, N.B.	3	5	A. Patriquin, Apohaqui Stn., I.C.R., King's Co., N.B.	Taken from can going out to serve customers.
" 17	" ..	24159	" ..	3	5	Hanford McKnight, Apohaqui Stn., I.C.R., King's Co., N.B.	" ..
" 18	Cream	24160	St. John Creamery, W. H. Bell, prop., 92 King St., St. John, N.B.	3	20	Milk supplied by 40 or 50 farmers in King's Co., N.B.	Sample of cream such as is sold to customers.
" 18	Buttermilk....	24161	" ..	3	....	From butter made in St. John Creamery.	Taken from vessel on counter from which customers were being served by glass, quart or gallon.
" 19	Whole Milk..	24162	Sussex Milk and Cream Co., Rupert W. Wigmore, mgr., 158 Pond St., St. John, N.B.	3	5	J. T. Prescott, Sussex, King's Co., N.B.	Sample taken from large can going out to customers
" 19	" ..	24163	" ..	3	5	Andrew Aiton, Sussex, King's Co., N.B.	" ..
" 19	" ..	24164	" ..	3	5	J. P. McIntyre, Sussex, King's Co., N.B.	" ..
" 19	" ..	24165	" ..	3	5	William Sharpe, Sussex, King's Co., N.B.	" ..
" 19	Cream.	24166	The Alderbrook Dairy, Dunlop & Noaks, props., 154 Charlotte St., St. John, N.B.	3	20	W. V. Darling, Jubilee Stn., I.C.R., King's Co., N.B.	Sample taken from large glass bottle filled for customer.
" 24	Whole Milk...	24167	Thomas Robinson, Dorchester St., St. John, N.B.	3	5	R. Robinson, Sussex, N.B.	Sample taken from can in delivery wagon on street.
" 24	" ..	24168	" ..	3	5	Oliver Hallett, Sussex, N.B.	" ..
" 24	" ..	24169	" ..	3	5	H. Cochrane, Bloomfield, King's Co., N.B.	" ..
" 24	" ..	24170	St. John Public Hospital.	3	....	A. E. McCanley, St. John, N.B.	Sample taken at hospital.
" 25	" ..	24171	J. W. Brogan, 10 Brussels St., retail grocer, St. John, N.B.	3	5	Andrew Gibson, Red Head, Parish of Simonds, St. John Co.	Taken from 8 quart can on sale in shop.
" 25	" ..	24172	R. R. Patchell, grocer, No. 7 Stanley St., St. John, N.B.	3	5	George Thompson, Manawagonish Road, Parish of Lancaster, St. John Co., west.	Taken from 8 quart can on sale in vendors store.
May 7	" ..	24179	David W. Doherty, Campbellton, N.B.	3	10	Vendors dairy.....	Taken from wagon on street.

SESSIONAL PAPER No. 14

by the Public Analysts and in the Inland Revenue Laboratory—*Continued.*

AVERAGE OF ANALYSES OF SAMPLES SHOWING DIFFERENCES OVER 0.25 P.C. BUTTER FAT			RESULTS OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks by District and Chief Analysts.
Butter fat.	Other solids.	Total solids.	Specific gra- vity at 15 C.	Water.	Butter fat.	Other solids.	Total solids.			
p.c.	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.			
.....	1.0319	87.43	3.83	8.74	12.57	M. Bowman.....	24157	Unadulterated.
.....	1.0323	87.15	3.72	9.13	12.85	Miss S. E. Wright.	24157	
.....		87.17	3.66	9.17	12.83			
.....	1.0308	88.65	3.39	7.96	11.35	M. Bowman.....	24158	Probably watered.
3.26	8.10	11.36	1.0302	88.59	3.13	8.28	11.41	Miss S. E. Wright	24158	
.....		88.62	3.14	8.24	11.38			
.....	1.0308	86.82	4.60	8.58	13.18	M. Bowman.....	24159	Unadulterated.
4.39	8.84	13.23	1.0323	86.74	4.16	9.10	13.26	Miss S. E. Wright.	24159	
.....		86.72	4.19	9.09	13.28			
.....	1.0248	66.81	25.60	7.59	33.19	M. Bowman.....	24160	"
26.26	7.25	33.51	1.0250	66.29	27.02	6.69	33.71	Miss S. E. Wright.	24160	
.....		66.17	26.93	6.90	33.83			
.....	1.0317	91.71	0.28	8.01	8.29	M. Bowman.....	24161	"
.....	1.0260	91.50	0.06	8.44	8.50	Miss S. E. Wright.	24161	
.....		91.46	0.03	8.51	8.54			
.....	1.0298	85.03	6.80	8.17	14.97	M. Bowman.....	24162	Partly cream.
5.71	8.37	14.08	1.0292	86.81	4.62	8.57	13.19	Miss S. E. Wright.	24162	
.....		86.76	4.61	8.63	13.24			
.....	1.0237	82.88	9.81	7.31	17.12	M. Bowman.....	24163	"
9.66	7.43	17.09	1.0250	82.94	9.52	7.54	17.06	Miss S. E. Wright.	24163	
.....		82.96	9.48	7.56	17.04			
.....	1.0289	87.63	4.32	8.05	12.37	M. Bowman.....	24164	Below average in solids not fat.
.....	1.0282	87.56	4.37	8.07	12.44	Miss S. E. Wright.	24164	
.....		87.60	4.44	7.96	12.40			
.....	1.0242	80.97	11.07	7.96	19.03	M. Bowman.....	24165	Partly cream.
.....	1.0270	80.75	10.89	8.36	19.25	Miss S. E. Wright.	24165	
.....		80.79	10.87	8.34	19.21			
.....	1.0290	68.58	24.27	7.15	31.42	M. Bowman.....	24166	Unadulterated.
24.14	6.87	31.01	1.0260	69.39	24.01	6.60	30.61	Miss S. E. Wright.	24166	
.....		69.46	23.75	6.79	30.54			
.....	1.0299	86.40	5.23	8.37	13.60	M. Bowman.....	24167	"
.....	1.0312	86.34	5.02	8.64	13.66	A. Lemoine.....	24167	
.....		86.37	4.96	8.67	13.63			
.....	1.0347	86.42	4.10	9.48	13.58	M. Bowman.....	24168	"
.....	1.0336	86.29	4.38	9.33	13.71	A. Lemoine.....	24168	
.....		86.32	4.34	9.34	13.68			
.....	1.0312	86.66	4.65	8.69	13.34	M. Bowman.....	24169	"
.....	1.0304	86.81	4.72	8.47	13.19	A. Lemoine.....	24169	
.....		86.76	4.76	8.48	13.24			
.....	1.0299	87.97	3.81	8.22	12.03	M. Bowman.....	24170	"
.....	1.0302	87.62	3.80	8.58	12.38	A. Lemoine.....	24170	
.....		87.63	3.72	8.65	12.37			
.....	1.0324	86.54	4.84	8.62	13.46	M. Bowman.....	24171	"
4.57	8.82	13.39	1.0312	86.81	4.21	8.98	13.19	A. Lemoine.....	24171	
.....		86.68	4.30	9.02	13.32			
.....	1.0328	88.38	2.99	8.63	11.62	M. Bowman.....	24172	Below average in fat.
.....	1.0346	88.26	2.81	8.93	11.74	A. Lemoine.....	24172	
.....		88.25	2.88	8.87	11.75			
.....	1.0314	87.33	3.66	8.51	12.17	M. Bowman.....	24179	Unadulterated.
.....	1.0317	88.33	3.45	8.22	11.67	J. G. A. Valin...	24179	
.....		88.32	3.40	8.28	11.68			

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RESULTS of examining 367 Samples of Milk, Buttermilk and Cream

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Pints.	Cents.		
1906.			<i>District of New Brunswick—Concluded.</i>				
May 7	Whole Milk..	24180	Angus McLellan, Campbellton, N.B.	3	10	Vendors dairy.....	Residence, cor. Queen & Dalhousie streets.
" 7	" " "	24181	Mrs. Milton Doherty, Campbellton, N.B.	3	10	" " " " " "	Surplus, if any, sold to neighbours.
" 7	" " "	24182	Denis Dornan, Lilly Lake Road, Campbellton, N.B.	3	5	" " " " " "	Taken from wagon on Dalhousie street.
" 7	" " "	24183	Thomas R. Duncan, Town Limits, Campbellton, N.B.	3	5	" " " " " "	Taken from milk wagon on street.
" 7	" " "	24184	John Mair, Campbellton, N.B.	3	5	" " " " " "	Taken from milk wagon on Gerard street.
" 7	" " "	24185	A. H. Chamberlain, Campbellton, N.B.	3	6	" " " " " "	" "
" 7	" " "	24186	A. C. McKenzie, grocer Water Street, Campbellton, N.B.	3	5	Robert Mair, Addington Parish, Campbellton, N.B.	" " " " " "
" 7	" " "	24187	" " " " " "	3	5	" " " " " "	" " " " " "
" 7	" " "	24188	Charles A. Adams, Campbellton, N.B.	3	5	Vendors dairy... " " "	Sample taken from wagon at I.C.R. station.
" 8	" " "	24189	Mrs. Ellen Gerrard, Campbellton, N.B.	3	5	" " " " " "	" " " " " "
" 8	" " "	24190	Mrs. James Gerrard, Minto St., Campbellton, N.B.	3	5	" " " " " "	From balance left over after serving customers.
" 8	" " "	24191	George Duncan, Gerard St., Campbellton, N.B.	3	6	" " " " " "	" " " " " "
			<i>District of Quebec—C. E. Roy, Inspector.</i>				
April 27	Cream.. " " "	601	Colonial Creamery Co., Ltd., Quebec.	1	9	P. Portalance, Grondine, P.Q.	Sample taken from can of 10 galls.
" 27	" " " " "	603	" " " " " "	1	9	E. C. Trottier, Grondine, P.Q.	Sample taken from can of 3½ galls.
" 27	" " " " "	604	" " " " " "	1	9	St. Arnaud, Ste. Anne de la Parade.	Sample taken from can of 9½ galls.
" 27	" " " " "	605	" " " " " "	1	9	Jos. Côté, Belair, P.Q.	Sample taken from can of 5½ galls.
" 27	" " " " "	606	" " " " " "	1	9	Welly Bigue, Ste. Anne de la Parade.	Sample taken from can of 5 galls.
May 1	Milk " " " "	607	Wilbrod Plamondon, St. Malo, Que.	1	5	" " " " " "	" " " " " "

SESSIONAL PAPER No. 14

by the Public Analysts and in the Inland Revenue Laboratory—Continued.

AVERAGE OF ANALYSES OF SAMPLES SHOWING DIFFERENCES OVER 0.25 P.C. BUTTER FAT			RESULTS OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks by District and Chief Analysts.
Butter fat.	Other solids.	Total solids.	Specific gra- vity at 15° C.	Water.	Butter fat.	Other solids.	Total solids.			
p.c.	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.			
			1.0331	86.21	4.67	9.12	13.79	M. Bowman.....	24180	Unadulterated.
			1.0337	86.38	4.70	8.92	13.62	J. G. A. Valin....	24180	
				86.52	4.62	8.86	13.48			
			1.0320	87.65	3.54	8.81	12.35	M. Bowman.....	24181	"
			1.0327	88.17	3.53	8.30	11.83	J. G. A. Valin....	24181	
				88.10	3.49	8.41	11.90			
			1.0322	87.81	3.44	8.75	12.19	M. Bowman.....	24182	"
			1.0327	88.20	3.48	8.32	11.80	J. G. A. Valin....	24182	
				88.04	3.52	8.44	11.96			
			1.0323	87.65	3.72	8.63	12.35	M. Bowman... ..	24183	"
				87.27	4.03	8.70	12.73			
3.87	8.65	12.54	1.0333	87.27	4.06	8.67	12.73	Miss E. Davidson.	24183	"
			1.0318	87.63	3.75	8.62	12.37	M. Bowman.....	24184	
				87.17	4.02	8.81	12.83			
			1.0347	87.17	3.95	8.88	12.83	Miss E. Davidson.	24184	"
			1.0326	87.12	4.11	8.77	12.88	M. Bowman.....	24185	
				86.86	4.35	8.79	13.14			
			1.0327	86.91	4.28	8.81	13.09	Miss E. Davidson.	24185	"
			1.0321	88.03	3.53	8.44	11.97	M. Bowman.....	24186	
				87.87	3.71	8.42	12.13			
			1.0317	87.85	3.72	8.43	12.15	Miss E. Davidson.	24486	"
			1.0325	87.54	3.65	8.81	12.46	M. Bowman.....	24187	
				87.15	3.95	8.90	12.85			
			1.0337	87.16	3.90	8.94	12.84	Miss E. Davidson.	24187	Doubtful.
			1.0306	88.54	3.09	8.37	11.46	M. Bowman.....	24188	
				88.19	3.34	8.47	11.81			
3.21	8.42	11.63	1.0317	88.10	3.36	8.54	11.90	Miss E. Davidson.	24188	"
			1.0317	88.29	2.97	8.74	11.71	M. Bowman.....	24189	
				86.35	5.02	8.63	13.65			
3.99	8.69	12.68	1.0306	86.28	5.12	8.60	13.72	Miss E. Davidson.	24189	Unadulterated (T.M.)
			1.0337	86.26	4.51	9.23	13.74	M. Bowman.....	24190	
				86.03	4.77	9.20	13.97			
			1.0337	86.05	4.72	9.23	13.95	Miss E. Davidson.	24190	Below average in solids not fat.
			Curdled	86.90	5.82	7.28	13.10	M. Bowman.....	24191	
				86.39	6.12	7.49	13.61			
5.95	7.37	13.32	1.0276	86.45	6.08	7.47	13.55	Miss E. Davidson.	24191	
			1.0068	67.02	27.94	5.04	32.98	Dr. J. T. Donald..	601	Pure.
			1.0194	73.73	19.42	6.85	26.27	" ..	603	"
			1.0145	72.17	20.92	6.91	27.83	" ..	604	"
			1.0029	64.80	29.97	5.23	35.20	" ..	605	"
			1.0125	71.56	22.03	6.41	28.44	" ..	606	"
			1.0318	88.62	3.14	8.24	11.38	" ..	607	Doubtful; being below average in total solids.
			1.0325	88.24	3.07	8.69	11.76	A. Lemoine.....	607	
				88.22	3.14	8.64	11.78			

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RESULTS of examining 367 Samples of Milk, Buttermilk and Cream

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Pints.	Cents.		
1906.			<i>District of Quebec—Continued.</i>				
May	1	Milk.....	608 Michel Hamel, St. Malo, Que.	1	5	.....	.....
"	1	"	609 Leger Begin, Stadacona, Que.	1	5	.....	.....
"	2	"	610 Alfred Fecteau, Que....	1	5	.....	.....
"	2	"	611 Archilas Turgeon, Que.	1	5	.....	.....
"	2	"	612 Leon Ratté, Que....	1	5	.....	.....
"	2	"	613 Louis Roberge, Que. ...	1	5	.....	.....
"	3	"	614 Eugene Augé, Que.	1	5	.....	.....
"	3	"	615 F. X. Demers, St. Malo, Que.	1	5	.....	.....
"	4	"	616 Godfroi Turgeon, St. Joseph, Lévis.	1	5	.....	.....
"	4	"	617 J. J. Conway, Lacarnadiere, Que.	1	5	.....	.....
"	4	"	618 Jos. Paradis, St. Malo, Que.	1	5	.....	.....
"	4	"	619 Elzear Junuau, Que. ...	1	5	.....	.....
"	4	"	620 Cyrille Dumas, St. Joseph, Lévis.	1	5	.....	.....
"	8	"	621 Albert Dubois, 1141½ St. Valier, St. Malo.	1	5	.....	All out of cans from 2 to 5 gallons.
"	8	"	622 Julien Gregoire, St. Malo.	1	5	.....	.....
"	8	"	623 Mathias Langlois, Rue Bonaventure, St. Malo.	1	5	.....	.....
"	8	"	624 Louis Fillion, 128 Richardson St., Quebec.	1	5	.....	.....
"	8	"	625 Jean Rochon, 253 Richelieu St., Quebec	1	5	.....	.....
"	8	"	626 Pierre Lepire, Charlesbourg, P.Q.	1	5	.....	.....

SESSIONAL PAPER No. 14

by the Public Analysts and in the Inland Revenue Laboratory—*Continued.*

AVERAGE OF ANALYSES OF SAMPLES SHOWING DIFFERENCES OVER 0·25 P.C. BUTTER FAT			RESULTS OF ANALYSIS					Name of Analyst.	No. of Sample.	Remarks by District and Chief Analysts.
Butter fat.	Other solids.	Total solids.	Specific gra- vity at 15° C.	Water.	Butter fat.	Other solids.	Total solids.			
p.c.	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.			
			1·0328	86·85	4·42	8·73	13·15	Dr. J. T. Donald .	608	Pure.
			1·0325	86·74	4·34	8·92	13·26	A. Lemoine.....	608	
				86·77	4·33	8·90	13·23			
			1·0319	87·21	3·80	8·98	12·79	Dr. J. T. Donald .	609	"
4·06	8·94	13·00	1·0323	86·84	4·33	8·83	13·16	A. Lemoine.....	609	
				86·78	4·32	9·00	13·22			
			1·0330	87·19	3·89	8·92	12·81	Dr. J. T. Donald .	610	"
			1·0323	87·09	4·15	8·76	12·91	A. Lemoine.....	610	
				87·14	3·96	8·90	12·86			
			1·0325	86·82	4·31	8·87	13·18	Dr. J. T. Donald .	611	"
			1·0325	86·57	4·82	8·61	13·43	A. Lemoine.....	611	
				86·58	4·33	9·09	13·42			
			1·0330	87·01	1·08	8·91	12·99	Dr. J. T. Donald .	612	"
			1·0325	86·93	4·27	8·80	13·07	A. Lemoine.....	612	
				86·90	4·05	9·05	13·10			
1·09	7·80	11·89	1·0318	88·65	4·39	6·96	11·35	Dr. J. T. Donald .	613	Below average in total
			1·0325	87·56	3·79	8·65	12·44	A. Lemoine.....	613	solids.
				87·58	3·57	8·85	12·42			
			1·0332	86·80	3·83	9·37	13·20	Dr. J. T. Donald .	614	Pure.
				86·71	4·15	9·14	13·29			
			1·0333	86·74	3·98	9·28	13·26	A. Lemoine.....	614	
			1·0335	86·73	4·07	9·20	13·27	Dr. J. T. Donald .	615	"
				86·53	4·55	8·92	13·47			
4·30	9·07	13·37	1·0302	86·52	4·53	8·95	13·48	A. Lemoine.....	615	
			1·0291	83·89	7·46	8·65	16·11	Dr. J. T. Donald .	616	Partly cream.
				83·48	8·03	8·49	16·52			
7·74	8·57	16·31	1·0256	83·51	8·06	8·43	16·49	Miss S. E. Wright.	616	
			1·0315	88·27	2·86	8·87	11·73	Dr. J. T. Donald .	617	Partly skimmed.
				88·06	3·14	8·80	11·94			
			1·0317	88·12	3·08	8·80	11·88	Miss S. E. Wright.	617	
			1·0328	88·08	3·24	8·68	11·92	Dr. J. T. Donald .	618	Pure.
				87·81	3·22	8·97	12·19			
			1·0327	87·82	3·14	9·04	12·18	Miss S. E. Wright.	618	
			1·0332	87·43	3·88	8·69	12·57	Dr. J. T. Donald .	619	"
				87·04	3·72	9·24	12·96			
			1·0327	87·08	3·76	9·16	12·92	Miss S. E. Wright.	619	
			1·0232	88·45	3·38	8·17	11·55	Dr. J. T. Donald .	620	Doubtful ; being below
				87·97	3·11	8·92	12·03			average in total
3·24	8·55	11·79	Sour	87·95	3·11	8·94	12·05	Miss S. E. Wright.	620	solids.
			1·0318	86·95	4·55	8·50	13·05	Dr. J. T. Donald .	621	Pure.
				86·31	4·80	8·89	13·69			
4·67	8·70	13·37	1·0317	86·36	4·87	8·77	13·64	Miss E. Davidson.	621	
			1·0322	87·51	4·02	8·47	12·49	Dr. J. T. Donald .	622	"
				87·12	4·07	8·81	12·88			
			1·0327	87·02	4·12	8·86	12·98	Miss E. Davidson.	622	
			1·0295	87·59	4·09	8·32	12·41	Dr. J. T. Donald .	623	"
				87·50	4·22	8·28	12·50			
			1·0290	87·60	4·20	8·20	12·40	Miss E. Davidson.	623	
			1·0320	86·36	4·77	8·87	13·64	Dr. J. T. Donald .	624	"
				86·29	4·84	8·87	13·71			
			1·0309	86·21	4·85	8·94	13·79	A. Lemoine.....	624	
			1·0350	88·10	3·08	8·82	11·90	Dr. J. T. Donald .	625	Doubtful ; probably
				87·85	3·15	9·00	12·15			partially skimmed.
			1·0355	88·01	3·93	8·96	11·99	A. Lemoine.....	625	
			1·0342	87·30	3·62	9·08	12·70	Dr. J. T. Donald .	626	Pure.
				87·31	3·62	9·07	12·69			
			1·0344	87·25	3·62	9·13	12·75	A. Lemoine.....	626	

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RESULTS of examining 367 Samples of Milk, Buttermilk and Cream

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report
				Pints.	Cents.		
1906.			<i>District of Quebec—</i> <i>Concluded.</i>				
May 8	Milk.. . . .	627	Arcade Caouette, St. Sauveur, Que.	1	5		
" 8	"	628	Arthur Denis, 276 Rue Richelieu, Que.	1	5		
" 8	"	629	Louis Carrier, St. Joseph, Lévis.	1	5		
" 8	"	630	Johnny Gingras, 265 St. Olivier, Que.	1	5		
" 11	Cream.. . . .	631	Antoine Genois, St. Raymond, Que.	1	10		Out of a large tank of many gallons, coming from many milkmen and mixed altogether.
" 11	"	632	Antoine Genois, Bourg Louis, Portneuf Co.	1	10		" " . .
" 12	Milk.....	633	Michel Denis, Ancienne Lorette, P.Q.	1	5		
			<i>District of St. Hyacinthe</i> <i>—J. C. Rouleau, Inspector.</i>				
April 18	Milk.....	513	A. W. Taylor, Richmond, Que.	1	3	Vendor	Taken out of a quart bottle.
" 18	"	514	H. Coles, Richmond, Que.	1	3	"	Taken from 1½ gallons.
" 18	"	515	J. C. Martin, Melbourne, Que.	1		"	Sold to J. T. Burrell, Montreal. Taken out of a 4 gall. tin.
" 18	"	516	O. Burt, Richmond, Que.	1		"	Sold to R. Johnston, Montreal. Taken from 4 galls.
" 18	"	517	E. Hall, Richmond, Que.	1		"	Sold to E. Bisailon, St. Henri de Montreal. Taken from 4 galls.
" 18	"	518	James Smyley, Richmond, Que.	1		"	Sold to Geo. Smith, Montreal. Taken from 4 galls.
" 19	"	519	L. N. Benoit, Sherbrooke, Que.	1	3	"	Taken from 2 galls
" 19	"	520	W. C. Elliott, Sherbrooke, Que.	1	3	"	" 4 galls.
" 19	"	521	I. Cartmell, Sherbrooke, Que.	1	3	"	

SESSIONAL PAPER No. 14

by the Public Analysts and in the Inland Revenue Laboratory—*Continued.*

AVERAGE OF ANALYSES OF SAMPLES SHOWING DIFFERENCES OVER 0·25 P.C. BUTTER FAT			RESULTS OF ANALYSIS.					Name. of Analyst.	No. of Sample.	Remarks by District and Chief Analysts.
Butter fat.	Other solids.	Total solids.	Specific gra- vity at 15° C.	Water.	Butter fat.	Other solids.	Total solids.			
p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.			
			1·0328	87·30	3·84	8·78	12·62	Dr. J. T. Donald .	627	Pure.
				87·37	3·77	8·86	12·63			
			1·0344	87·46	3·75	8·79	12·54	A. Lemoine.....	627	
			1·0342	87·70	3·27	9·03	12·36	Dr. J. T. Donald .	628	Below average in but- ter fat.
				87·61	3·28	9·11	12·39			
			1·0355	87·60	3·28	9·12	12·40	A. Lemoine.....	628	
			1·0206	88·94	2·67	7·39	10·06	Dr. J. T. Donald .	629	Watered.
				89·25	3·21	7·54	10·75			
2·94	7·46	10·40		89·10	3·33	7·57	10·90	A. Lemoine.....	629	
			1·0335	86·97	4·07	8·96	13·03	Dr. J. T. Donald .	630	Pure.
				86·90	4·14	8·96	13·10			
			1·0344	86·99	4·07	8·94	13·01	A. Lemoine.....	630	
			1·0120	70·07	23·61	6·32	29·93	Dr. J. T. Donald .	631	"
				70·30	23·54	6·16	29·70			
				69·90	23·79	6·31	30·10	A. Lemoine.. . . .	631	
			1·0089	57·31	26·71	5·98	32·69	Dr. J. T. Donald .	632	"
				68·00	26·15	5·85	32·00			
31·49	6·01	37·50		67·69	26·28	6·03	32·31	A. Lemoine.	632	
			1·0314	86·45	4·99	8·56	13·55	Dr. J. T. Donald .	633	"
				85·65	5·98	8·37	14·35			
5·37	8·49	13·86	1·0366	85·83	5·76	8·41	14·77	A. Lemoine.	633	
			1·0313	86·75	4·93	8·32	13·25	D. J. T. Donald ..	513	Genuine.
				87·97	2·98	9·05	12·03			
3·95	8·69	12·64	1·0330	87·95	2·94	9·11	12·05	Miss S. E. Wright		
			1·0329	87·61	4·28	8·11	12·39	Dr. J. T. Donald .	514	"
				87·29	3·53	9·18	12·71			
3·94	8·63	12·57	1·0310	87·25	3·60	9·15	12·75	Miss S. E. Wright		
			1·0160	76·39	16·89	6·72	23·61	Dr. J. T. Donald .	515	Largely cream
				76·71	15·45	7·84	23·29			
16·17	7·28	23·45	1·0250	76·65	15·42	7·93	23·35	Miss S. E. Wright		
			1·0293	83·82	8·53	7·65	16·18	Dr. J. T. Donald .	516	Partly cream.
				83·38	7·66	8·96	16·62			
8·10	8·26	16·36	1·0270	83·46	7·67	8·87	16·54	Miss S. E. Wright		
			1·0231	81·91	11·43	6·66	18·09	Dr. J. T. Donald .	517	Largely cream.
				81·64	10·52	7·84	18·36			
10·97	7·25	18·22	1·0260	81·73	10·49	7·78	18·27	Miss S. E. Wright		
			1·0262	83·28	9·00	7·72	16·72	Dr. J. T. Donald .	518	Partly cream.
				83·26	8·27	8·47	16·74			
8·65	8·10	16·75	1·0270	83·22	8·30	8·48	16·78	Miss S. E. Wright		
			1·0330	87·61	4·00	8·39	12·39	Dr. J. T. Donald .	519	Genuine.
				87·19	3·88	8·93	12·81			
			1·0270	87·23	3·85	8·92	12·77	Miss S. E. Wright		
			1·0329	87·50	4·03	8·47	12·50	Dr. J. T. Donald .	520	"
				87·29	3·68	9·03	12·71			
3·85	8·75	12·60	1·0312	87·30	3·65	9·05	12·70	Miss S. E. Wright		
			1·0328	87·68	4·23	8·09	12·32	Dr. J. T. Donald .	521	"
				87·14	3·59	9·27	12·86			
3·91	8·68	12·59	1·0320	87·12	3·57	9·31	12·88	Miss S. E. Wright		

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RESULTS of examining 367 Samples of Milk, Buttermilk and Cream

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Pints.	Cents.		
1906.			<i>District of St. Hyacinthe</i> —Continued.				
April 19	Milk...	522	D. Gagné, Sherbrooke, Que.	1	3	Vendor.	
" 19	"	523	R. Armitage, East Sherbrooke, Que.	1	3	"	
" 19	"	524	Z. Boisse, 4 R. Orford, Que.	1	3	"	
" 19	"	525	J. Sims, Sherbrooke, Que.	1	3	"	
" 20	"	526	J. B. Casavant, Magog.	1	3	"	Out of a 2 gall. can
" 20	"	527	Jos. N. Gaudreau, Magog.	1	3	"	" "
" 21	"	528	S. Robert, Ste. Sabine.	1	3	"	" "
" 21	"	529	Isaïe Audette, Farnham, West.	1	3	"	Three different kinds of milk put in same can.
" 24	"	530	Ed. Lemoine, Sorel..	1	3	"	
" 24	"	531	N. Cardin, Sorel...	1	3	"	
" 24	"	532	N. Crepeau, Sorel.	1	3	"	
" 24	"	533	Henri Guillotte, Sorel..	1	3	"	
" 24	"	534	M. Larochelle, Sorel..	1	3	"	Vendor's milk is mixed with another furnisher..
" 25	"	535	N. Aubain, Longueuil.	1	3	"	" "
" 25	"	536	A. Gadbois, Longueuil	1	3	Jos. Paré, St. Hubert.	
" 26	"	537	Frs. Bedard, St. Jean.	1	3	Vendor	
" 26	"	538	Adelard Lafaille, St. Jean.	1	3	"	
" 26	"	539	H. Ury, St. Jean.....	1	3	"	
" 28	Cream...	540	Benoit, Lemieux, N.D. de St. Hyacinthe.	1	15	"	
" 28	"	541	Isaïe Desmarais, Ste. Rosalie, Bagot.	1	15	"	

SESSIONAL PAPER No. 14

by the Public Analysts and in the Inland Revenue Laboratory—*Continued.*

AVERAGE OF ANALYSES OF SAMPLES SHOWING DIFFERENCES OVER 0·25 P.C. BUTTER FAT			RESULTS OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks by District and Chief Analysts.
Butter fat.	Other solids.	Total solids.	Specific gra- vity at 15° C.	Water.	Butter fat.	Other solids.	Total solids.			
p.c.	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.			
			1·033	87·36	4·15	8·49	12·64	Dr. J. T. Donald .	522	Genuine.
				86·88	3·75	9·37	13·12			
3·95	8·93	12·88	1·0320	86·92	3·73	9·35	13·08	Miss S. E. Wright		
			1·0331	87·20	4·53	8·27	12·80	Dr. J. T. Donald .	523	"
				86·77	3·63	9·60	13·23			
4·08	8·93	13·01	1·0340	86·74	3·62	9·64	13·26	Miss S. E. Wright		
			1·0309	87·78	4·56	7·66	12·22	Dr. J. T. Donald .	524	"
				87·36	3·59	9·05	12·64			
4·07	8·36	12·43	1·0310	87·36	3·58	9·06	12·64	Miss S. E. Wright		
			1·0328	87·72	3·95	8·33	12·28	Dr. J. T. Donald..	525	"
				87·51	3·47	9·02	12·49			
3·71	8·67	12·38	1·0320	87·53	3·46	9·01	12·47	Miss S. E. Wright		
			1·0316	86·87	4·90	8·23	13·13	D. J. T. Donald..	526	"
				86·64	4·78	8·88	13·36			
4·69	8·55	13·24	1·0312	88·67	4·38	8·95	13·33	Miss S. E. Wright		
			1·0319	87·27	4·37	8·36	12·73	Dr. J. T. Donald ..	527	"
				86·93	4·21	8·86	13·07			
			1·0323	86·90	4·23	8·87	13·10	Miss S. E. Wright		
			1·0318	87·71	3·94	8·35	12·29	Dr. J. T. Donald	528	"
				87·47	3·80	8·75	12·55			
			1·0312	87·12	3·86	8·72	12·58	Miss S. E. Wright		
			1·0324	88·86	3·41	7·73	11·14	Dr. J. T. Donald	529	Doubtful; low in solids not fat.
				88·43	3·00	8·57	11·57			
3·21	8·15	11·36	1·0312	88·42	3·01	8·57	11·58	Miss S. E. Wright		
			1·0340	87·44	3·94	8·62	12·56	Dr. J. T. Donald .	530	Genuine.
				87·47	3·48	9·05	12·53			
3·72	8·84	12·56	1·0333	87·43	3·50	9·07	12·57	Miss S. E. Wright		
			1·0337	87·54	3·92	8·54	12·46	Dr. J. T. Donald .	531	"
				87·18	3·68	9·14	12·82			
			1·0337	87·14	3·75	9·11	12·86	Miss S. E. Wright		
			1·0318	88·34	3·54	8·12	11·66	Dr. J. T. Donald .	532	Low in total solids .
				88·55	2·96	8·49	11·45			
3·25	8·28	11·53	1·0317	88·59	2·96	8·45	11·41	Miss S. E. Wright		
			1·0336	87·71	3·84	8·45	12·29	Dr. J. T. Donald .	533	Genuine.
				87·73	3·30	8·97	12·27			
3·60	8·72	12·32	1·0327	87·64	3·37	8·99	12·36	Miss S. E. Wright		
			1·0318	88·28	3·64	8·08	11·72	Dr. J. T. Donald .	534	
				87·96	3·23	8·81	12·04			
3·43	8·45	11·88	1·0306	87·95	3·21	8·84	12·05	Miss S. E. Wright		Watered. (T.M.)
			1·0312	88·91	3·23	7·86	11·09	Dr. J. T. Donald .	535	Slightly watered.
				88·08	3·31	8·61	11·92			
			1·0306	88·08	3·34	8·58	11·92	Miss S. E. Wright		
3·24	8·66	11·90	1·0330	88·24	3·54	8·22	11·76	Dr. J. T. Donald..	536	Genuine.
				87·96	2·95	9·09	12·04			
			1·0327	87·91	2·94	9·15	12·09	Miss S. E. Wright		
			1·0315	89·29	3·05	7·66	10·71	Dr. J. T. Donald .	537	Watered
				88·17	2·83	9·00	11·83			
			1·0304	88·33	2·82	8·85	11·67	Miss E. Davidson.	537	
			1·0313	87·07	4·54	8·39	12·93	Dr. J. T. Donald .	538	Genuine.
				86·41	4·50	9·09	13·59			
			1·0319	86·52	4·44	9·04	13·48	Miss E. Davidson.	538	
			1·0310	88·21	3·83	7·96	11·79	Dr. J. T. Donald .	539	"
				87·78	3·68	8·54	12·22			
			1·0314	87·78	3·64	8·58	12·22	Miss E. Davidson.	539	
			1·0100	67·81	26·45	5·74	32·19	Dr. J. T. Donald .	540	Genuine and of high quality.
				66·93	27·03	6·04	33·07			
26·68	5·90	32·58		67·03	26·92	6·05	32·97	Miss E. Davidson.	540	
			1·0110	66·51	27·56	5·93	33·49	Dr. J. T. Donald..	541	"
				63·88	29·66	6·46	36·12			
28·61	19	34·80		63·67	30·08	6·23	36·33	Miss E. Davidson.	541	

RESULTS of examining 367 Samples of Milk, Buttermilk and Cream

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Pints.	Cents.		
1906.			<i>District of St. Hyacinthe</i> —Concluded.				
April 30	Milk.....	542	H. Hainault, N.D. de St. Hyacinthe.	1	2	Vendor.....	
" 30	"	543	Jos. Alix, St. Hyacinthe.			"	
" 30	"	544	F. X. Laplante, St. Hyacinthe.	1	3	"	
			<i>District of Montreal—</i> <i>J. J. Costigan,</i> <i>Inspector.</i>				
April 14	Milk.....	26701	J. Lapierre, 1668 St. Laurent, Ville St. Louis.	1	4	J. Labelle, St. Rose Que.	
" 14	"	26702	Fred. Larche, Lachine Locks.	1	4	Vendor.	
" 16	"	26703	J. B. O. Desjardins, 692 Hunter, Montreal.	1	4	Not known.	
" 16	"	26704	William Hall, Longue Point.	1	5	Vendor.....	
" 16	"	26705	C. Muir, 371 Clarke St., Montreal.	1	4	Peter Paul, Carrs Crossing.	
" 16	"	26706	Alderic Beaulieu, St. Laurent, Que.	1	4	Vendor.....	
" 16	"	26707	R. Johnson, 93 Chatham St., Montreal.	1	4	O. R. Burke, Upper Melbourne.	
" 16	"	26708	Louis Leblanc, 644 Colonial Ave., Montreal.	1	4	Vendor.....	
" 16	"	26709	Michael Mahon, 650 Fullum St., Montreal.	1	4	J. Wylie, Howick, Que.	
" 16	"	26710	Reinhold & Power, 990 Sanguinet St., Montreal.	1	4	Not known.....	
" 16	"	26711	T. Hannah, Back River.	1	4	Vendor	
" 16	"	26712	A. D. Howat, 201 Knox St., Montreal.	1	4	John White, Whites Station, Que.	
" 18	"	26713	Walter Shiells, Ville St. Paul.	1	4	Dairyman.....	Keeps own cows..
" 18	"	26714	Henri Madon, St. Laurent.	1	4	"	"
" 18	"	26715	H. Coughtry, Esplanade Ave., Montreal.	1	4	J. Davidson, Staynerville.	
" 18	"	26716	N. Leduc, St. Laurent.	1	4	Dairyman.....	Keeps own cows..
" 18	"	26717	A. Messier, 292 Delisle, Montreal.	1	4	Furnished by farmer at Longueuil and St. Hubert.	

SESSIONAL PAPER No. 14

by the Public Analysts and in the Inland Revenue Laboratory—Continued.

AVERAGE OF ANALYSES OF SAMPLES SHOWING DIFFERENCES OVER 0·25 P.C. BUTTERFAT			RESULTS OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks by District and Chief Analysts.
Butter fat.	Other solids.	Total solids.	Specific gra- vity at 15° C.	Water.	Butter fat.	Other solids.	Total solids.			
p.c.	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.			
.....	1·0331	87·45	4·02	8·53	12·55	Dr. J. T. Donald.	542	Genuine.
.....		87·18	3·83	8·99	12·82			
.....	1·0327	87·21	3·87	8·92	12·79	Miss E. Davidson.	542	
.....	1·0328	86·85	3·94	9·21	13·15	Dr. J. T. Donald.	543	"
.....		87·29	3·89	8·82	12·71			
.....	1·0327	87·25	3·88	8·87	12·75	Miss E. Davidson.	543	
.....	1·0333	87·66	3·87	8·47	12·34	Dr. J. T. Donald.	544	"
.....		87·37	3·55	9·08	12·63			
.....	1·0337	87·30	3·65	9·05	12·70	Miss E. Davidson.	544	
.....	1·0330	88·11	3·84	8·05	11·89	Dr. J. T. Donald.	26701	Genuine.
.....		87·95	3·13	8·92	12·05			
3·49	8·47	11·96	1·0334	87·97	3·15	8·88	12·03	Miss E. Davidson.		
.....	1·0329	88·06	3·73	8·21	11·94	Dr. J. T. Donald.	26702	"
.....		87·78	3·35	8·87	12·22			
3·56	8·45	12·01	1·0306	87·92	3·40	8·68	12·08	Miss E. Davidson.		
.....	1·0300	88·68	3·66	7·66	11·32	Dr. J. T. Donald.	26703	Low in solids not fat.
.....		88·34	3·46	8·20	11·66			
.....	1·0286	88·31	3·50	8·19	11·69	Miss E. Davidson.		
.....	1·0340	87·32	4·15	8·53	12·68	Dr. J. T. Donald.	26704	Genuine.
.....		86·87	3·70	9·43	13·13			
3·95	8·95	12·90	1·0327	86·87	3·75	9·36	13·13	Miss E. Davidson.		
.....	1·0300	89·34	3·19	7·47	10·66	Dr. J. T. Donald.	26705	Watered.
.....		88·88	2·87	8·25	11·12			
3·03	7·86	10·89	1·0296	88·88	2·77	8·35	11·12	Miss E. Davidson.		
.....	1·0321	87·92	3·81	8·27	12·08	Dr. J. T. Donald.	26706	Genuine.
.....		87·35	3·66	8·99	12·65			
.....	1·0306	87·37	3·74	8·89	12·63	Miss E. Davidson.		
.....	1·0310	88·37	3·55	8·08	11·63	Dr. J. T. Donald.	26707	Low in solids not fat.
.....		88·05	3·26	8·69	11·95			
3·42	8·39	11·81	1·0317	88·01	3·29	8·70	11·99	Miss E. Davidson.		
.....	1·0321	87·79	3·61	8·60	12·21	Dr. J. T. Donald.	26708	Genuine.
.....		87·36	3·57	9·07	12·64			
.....	1·0327	87·35	3·58	9·07	12·65	Miss E. Davidson.		
.....	1·0332	87·28	3·65	9·07	12·72	Dr. J. T. Donald.	26709	"
.....		86·94	3·59	9·47	13·06			
.....	1·0327	86·91	3·65	9·44	13·09	Miss E. Davidson.		
.....	1·0301	89·26	2·63	8·11	10·74	Dr. J. T. Donald.	26710	Partly skimmed.
.....		89·15	2·50	8·35	10·85			
.....	1·0296	89·16	2·54	8·30	10·84	Miss E. Davidson.		
.....	1·0320	88·05	3·69	8·26	11·95	Dr. J. T. Donald.	26711	Genuine.
.....		87·55	3·26	9·19	12·45			
3·47	8·73	12·20	1·0306	87·70	3·20	9·10	12·30	Miss E. Davidson.		
.....	1·0310	88·21	3·95	7·84	11·79	Dr. J. T. Donald.	26712	Low in solids not fat.
.....		87·93	3·38	8·69	12·07			
3·66	8·27	11·93	1·0317	87·92	3·32	8·76	12·08	Miss E. Davidson.		
.....	1·0332	87·83	3·82	8·35	12·17	Dr. J. T. Donald.	26713	Genuine.
.....		87·74	3·41	8·85	12·26			
3·63	8·52	12·15	1·0306	87·87	3·44	8·69	12·13	Miss E. Davidson.		
.....	1·0344	87·81	3·76	8·43	12·19	Dr. J. T. Donald.	26714	"
.....		87·62	3·04	9·34	12·38			
3·42	8·88	12·30	1·0325	87·59	3·09	9·32	12·41	Miss E. Davidson.		
.....	1·0331	86·99	4·47	8·54	13·01	Dr. J. T. Donald.	26715	"
.....		86·82	4·13	9·05	13·18			
4·30	8·79	13·09	1·0299	86·86	4·06	9·08	13·14	Miss E. Davidson.		
.....	1·0330	88·11	4·07	7·82	11·89	Dr. J. T. Donald.	26716	Low in solids not fat.
.....		87·90	3·16	8·94	12·10			
3·62	8·39	12·01	1·0320	87·86	3·18	8·96	12·14	Miss E. Davidson.		
.....	1·0329	87·81	4·00	8·19	12·19	Dr. J. T. Donald.	26717	Genuine.
.....		87·64	3·45	8·91	12·36			
3·72	8·55	12·27	1·0320	87·71	3·41	8·88	12·29	Miss E. Davidson		

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RESULTS of examining 367 Samples of Milk, Buttermilk and Cream

Date of Collection.	Nature of Sample	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Pints.	Cents.		
1906.			<i>District of Montreal</i> Concluded.				
April 18	Milk.....	26718	W. A. Candlish, St. Urbain St., Ville St. Louis.	1	4	G. S. Armstrong, Lachute.	
" 18		26719	E. Jackson, 35 Conway St., Montreal.	1	4	R. A. Macdonald, Greenfield.	
" 18		26720	T. A. Coughtry, Esplanade Ave., Ville St. Louis.	1	4	J. Walker, Lachute.	
" 18		26721	The Guaranteal Pure Milk Co., Montreal.	1	4		This sample was taken at premises of the company from the can as received from the furnishers at Lancaster, Ont. Name not given.
" 18		26722	The Guaranteal Pure Milk Co., Montreal.	1	4	G. H. Hogg, Longue Point, Que.	This sample taken at premises from the can as supplied by the furnisher.
" 19		26723	R. Ouimet, St. Hubert St., Villeray.	1	5	Not known.	Taken on street from wagon of vendor.
" 19		26724	H. Desroches, 887 Huntly St., Montreal.	1	4	F. Chartrand, St. Leonard.	
" 19		26725	S. Corn, 25 St. Justin St., Montreal.	1	4	Standard Dairy Co., Montreal.	
" 19		26726	Cesaire Brusseau, 91 Dufferin St., Montreal.	1	4	Dairyman.....	Keeps own cows.
" 19		26727	G. M. Candlish, 1648 St. Urbain, Ville St. Louis.	1	4	Not known	
" 19	Cream.....	26728	G. M. Candlish, 1648 St. Urbain, Ville St. Louis.	1	15		
" 19	Milk.....	26729	Montreal Dairy Co., 377 Lagauchetière St., Montreal.	1	5	A. Lebeau, L'Epep-haine.	Taken from can at the premises of vendor.
" 19	Buttermilk. . .	26730	Montreal Dairy Co., 377 Lagauchetière St., Montreal.	1	5	Vendor.....	
" 19	Cream.....	26731	John D. Duncan, 66 Drummond St., Montreal.	1	18	Not known.	
" 19	Milk.....	26732	John D. Duncan, 66 Drummond St., Montreal.	1	4		Put up in 1 pint bottles as supplied to regular customers and taken at the premises of the vendor.
			<i>District of Ottawa—</i> A. E. Sanderson, Inspector.				
April 28	Milk.....	29232	Ottawa Dairy Co., Ltd., Ottawa.	1	6	Supplied by contract dairymen.	Sold as pure milk.

SESSIONAL PAPER No. 14

by the Public Analysts and in the Inland Revenue Laboratory—Continued.

AVERAGE OF ANALYSES OF SAMPLES SHOWING DIFFERENCES OVER 0.25 P.C. BUTTER FAT			RESULTS OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks by District and Chief Analysts.
Butter fat.	Other solids.	Total solids.	Specific gra- vity at 15° C.	Water.	Butter fat.	Other solids.	Total solids.			
p.c.	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.			
			1.0352	88.78	2.51	8.71	11.22	Dr. J. T. Donald.	26718	Partly skimmed.
				88.56	2.00	9.44	11.44			
2.30	9.06	11.36	1.0350	88.49	2.10	9.41	11.51	Miss E. Davidson.		
			1.0326	88.37	3.92	7.71	11.63	Dr. J. T. Donald.	26719	Low in solids not fat.
				88.47	2.98	8.55	11.53			
3.45	8.13	11.58	1.0309	88.42	2.93	8.65	11.58	Miss E. Davidson.		
			1.0329	89.10	2.97	7.93	10.90	Dr. J. T. Donald.	26720	Partly skimmed.
				89.30	2.33	8.37	10.70			
2.65	8.15	10.80	1.0359	89.49	2.17	8.34	10.51	Miss E. Davidson.		
			1.0308	88.51	3.88	7.61	11.49	Dr. J. T. Donald.	26721	
				88.51	3.23	8.26	11.49			
3.55	7.94	11.49	1.0306	88.52	3.20	8.28	11.48	Miss E. Davidson.		Watered. (T.M.)
			1.0290	89.44	3.67	6.89	10.56	Dr. J. T. Donald.	26722	
				89.24	2.91	7.85	10.76			
3.30	7.38	10.68	1.0286	89.20	2.93	7.87	10.80	Miss E. Davidson.		Watered. (T.M.)
			1.0330	88.34	3.55	8.11	11.66	Dr. J. T. Donald.	26723	
				88.30	2.86	8.84	11.70			
2.20	8.48	11.68	1.0327	88.37	2.80	8.83	11.63	Miss E. Davidson.		Under average in total solids. (T.M.)
			1.0339	87.76	3.95	8.29	12.24	Dr. J. T. Donald.	26724	Genuine.
				87.61	3.34	9.05	12.39			
3.64	8.67	12.31	1.0327	87.58	3.28	9.14	12.42	Miss E. Davidson.		
			1.0328	88.09	4.11	7.80	11.91	Dr. J. T. Donald.	26725	"
				87.77	3.67	8.56	12.23			
3.89	8.18	12.07	1.0316	87.75	3.60	8.65	12.25	Miss E. Davidson.		
			1.0311	88.15	3.85	8.00	11.85	Dr. J. T. Donald.	26726	Low in solids not fat.
				87.96	3.50	8.54	12.04			
3.69	8.29	11.98	1.0338	87.88	3.53	8.59	12.12	Miss E. Davidson.		
			1.0342	88.37	3.53	8.10	11.63	Dr. J. T. Donald.	26727	"
				87.96	2.90	9.14	12.04			"
3.22	8.64	11.86	1.0338	87.91	2.92	9.17	12.09	Miss E. Davidson.		
			1.0129	77.34	16.07	6.59	22.66	Dr. J. T. Donald.	26728	Genuine.
				76.62	16.43	6.95	23.38			
				77.14	16.25	6.61	22.86	Miss E. Davidson.		
			1.0338	88.31	3.71	7.98	11.69	Dr. J. T. Donald.	26729	Low in solids not fat.
				88.02	2.97	8.91	11.98			
3.34	8.49	11.83	1.0336	88.18	2.89	8.93	11.82	Miss E. Davidson.		
			1.0319	92.10	0.80	7.10	7.90	Dr. J. T. Donald.	26730	Genuine.
				91.44	0.62	7.84	8.56			
			1.0304	91.50	0.66	7.84	8.50	Miss E. Davidson.		
			1.0092	67.94	25.86	6.20	32.06	Dr. J. T. Donald.	26731	"
				68.08	25.72	6.20	31.92			
				68.79	25.18	6.03	31.21	Miss E. Davidson.		
			1.0328	87.85	3.63	8.52	12.15	Dr. J. T. Donald.	26732	"
				87.92	3.43	8.65	12.08			
			1.0325	87.89	3.42	8.69	12.11	Miss E. Davidson.		
			1.0318	87.17	4.40	8.43	12.83	Dr. J. T. Donald.	29232	Pure.
4.25	8.54	12.79	1.0314	87.24	4.10	8.66	12.76	J. G. A. Valin....	29232	
				87.19	4.18	8.63	12.81			

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RESULTS of examining 367 Samples of Milk, Buttermilk and Cream

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Pints.	Cents.		
1906.			District of Ottawa—Continued.				
April 28	Table Cream...	29233	Ottawa Dairy Co., Ottawa.	1	15	Supplied by contract dairymen.	Labelled table cream and guaranteed 16 p.c.
" 28	Whipping Cream.	29234	" " "	1	20	" " "	Labelled whipping cream and guaranteed 24 p.c.
" 28	Milk.....	29237	R. McRea, City View Dairy.	1	3	Vendor.....	Sold as pure. Taken from wagon on street.
" 28	"	29238	E. Honeywell, Westboro'.	1	3	"	" " "
" 28	"	29239	Graham Bros., Britannia.	1	3	"	" " "
" 28	"	29240	S. Stewart, Aylmer Road.	1	3	"	" " "
" 28	"	29241	R. Magee, Britannia..	1	3	"	" " "
" 30	"	29242	John Kendry, Ramsay, Ont.	1	3	"	Purchased from wagon on street.
" 30	"	29243	J. P. Moore, Carleton Junction.	1	3	J. Young, Ramsay, Ont.	Taken from pint bottle.
" 30	"	29244	W. F. Sparham, Arnprior, Ont.	1	3	T. Harvey, McNab, Ont.	Taken from pint bottle in store of vendor.
" 30	Cream.....	29245	" " "	1	15	J. Taylor, Fitzroy, Ont.	" " "
May 1	"	29246	A.E. Wright, Renfrew, Ont.	1	15	Vendor.....	Purchased from vendor as sold to customers.
" 1	Milk..	29247	" " "	1	3	"	As sold to purchasers by vendor.
" 2	"	29248	James Fraser, Pembroke, Ont.	1	3	"	Purchased from vendor on street.
" 2	"	29249	Mr. O'Brien, Pembroke, Ont.	1	3	"	" " "
" 2	Cream..	29250	" " "	1	15	"	" " "
" 4	Milk....	29251	F. J. Dennie, Sudbury.	1	3	"	Taken at house of vendor and he stated that he did not sell to public.
" 7	"	29252	Ottawa Dairy Co., Ltd., Ottawa.	1	3	Supplied by various dairymen.	Taken from wagon on street.
" 7	"	29253	J. E. Caldwell, City View.	1	3	Vendor.	" " "

SESSIONAL PAPER No. 14

by the Public Analysts and in the Inland Revenue Laboratory—Continued.

AVERAGE OF ANALYSES OF SAMPLES SHOWING DIFFERENCES OVER 0·25 P.C. BUTTER FAT			RESULTS OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks by District and Chief Analysts.
Butter fat.	Other solids.	Total solids.	Specific gra- vity at 15° C.	Water.	Butter fat.	Other solids.	Total solids.			
p. c.	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.			
23·00	6·48	29·48	1·0143	70·26	23·52	6·22	29·74	Dr. J. T. Donald .	29233	Pure.
				70·77	22·48	6·75	29·23	J. G. A. Valin . . .	29233	
				70·75	22·45	6·80	29·25			
			1·0099	65·50	28·07	6·43	34·50	Dr. J. T. Donald .	29234	"
				66·52	27·95	6·53	34·48	J. G. A. Valin . . .	29234	
				65·67	27·93	6·60	34·33			
			1·0330	88·02	3·35	8·63	11·98	Dr. J. T. Donald .	29237	"
			1·0323	88·15	3·22	8·63	11·85	J. G. A. Valin . . .	29237	
				88·12	3·18	8·70	11·88			
			1·0331	88·24	3·23	8·53	11·76	Dr. J. T. Donald .	29238	Doubtful; probably
			1·0302	88·19	3·13	8·68	11·81	J. G. A. Valin . . .	29238	slightly watered.
				88·22	3·13	8·65	11·78			
			1·0300	87·78	4·31	7·91	12·22	Dr. J. T. Donald .	29239	Pure.
			1·0271	87·82	4·16	8·62	12·18	J. G. A. Valin . . .	29239	
			1·0322	87·64	3·85	8·51	12·36	Dr. J. T. Donald .	29240	"
			1·0323	87·80	3·69	8·51	12·20	J. G. A. Valin . . .	29240	
				87·80	3·68	8·52	12·20			
			1·0308	88·08	3·71	8·21	11·92	Dr. J. T. Donald .	29241	"
			1·0292	88·14	3·55	8·31	11·86	J. G. A. Valin . . .	29241	
				88·14	3·50	8·36	11·86			
3·85	8·45	12·30	1·0300	86·68	5·01	8·31	13·32	Dr. J. T. Donald .	29242	"
			1·0323	88·76	2·69	8·55	11·24	J. G. A. Valin . . .	29242	
				88·71	2·70	8·59	11·29			
			1·0324	87·45	4·26	8·29	12·55	Dr. J. T. Donald .	29243	
3·17	8·40	11·57	1·0323	89·41	2·08	8·51	10·59	J. G. A. Valin . . .	29243	Under the average in
				89·47	2·07	8·46	10·53			total solids. (T.M.)
			1·0312	86·84	4·80	8·36	13·16	Dr. J. T. Donald .	29244	Genuine.
			1·0292	86·79	4·80	8·41	13·21	J. G. A. Valin . . .	29244	
				86·72	4·90	8·38	13·28			
19·88	6·25	26·13	1·0145	74·31	19·58	6·11	25·69	Dr. J. T. Donald .	29245	"
				73·43	20·18	6·39	26·57	J. G. A. Valin . . .	29245	
				73·13	20·23	6·64	26·87			
			1·0146	70·95	22·41	6·64	29·05	Dr. J. T. Donald .	29246	"
22·04	6·77	28·81		71·60	21·62	6·78	28·40	J. G. A. Valin . . .	29246	
				71·42	21·68	6·90	28·58			
			1·0273	82·63	9·51	7·86	17·37	Dr. J. T. Donald .	29247	Partly cream.
8·75	8·02	16·77	1·0236	83·76	7·95	8·29	16·24	J. G. A. Valin . . .	29247	
				83·82	8·00	8·18	16·18			
			1·0314	87·15	4·62	8·23	12·85	Dr. J. T. Donald .	29248	Pure.
				87·32	4·06	8·62	12·68			
4·34	8·42	12·76	1·0312	87·38	4·05	8·57	12·62	A. Lemoine	29248	
			1·0291	85·16	6·85	7·99	14·84	Dr. J. T. Donald .	29249	
				88·93	2·47	8·60	11·07			
4·66	8·29	12·95	1·0330	88·87	2·43	8·70	11·13	A. Lemoine	29249	Genuine. (T.M.)
			1·0165	76·24	17·73	6·03	23·76	Dr. J. T. Donald .	29250	Pure.
				74·73	19·34	5·93	25·27			
18·57	6·01	24·58		74·60	19·41	5·99	25·40	A. Lemoine	29250	
			1·0368	88·71	2·41	8·88	11·29	Dr. J. T. Donald .	29251	Skimmed.
				88·13	2·61	9·26	11·87			
			1·0350	88·35	2·45	9·20	11·65	A. Lemoine	29251	
			1·0351	90·33	1·03	8·64	9·67	Dr. J. T. Donald .	29252	
				84·43	7·27	8·30	15·57			
4·15	8·47	12·62	1·0279	83·99	7·79	8·22	16·01	A. Lemoine	29252	Unadulterated. (T.M.)
			1·0336	87·66	3·75	8·59	12·34	Dr. J. T. Donald .	29253	Pure.
				87·07	4·00	8·93	12·93			
			1·0330	87·10	3·92	8·98	12·90	A. Lemoine	29253	

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RESULTS of examining 367 Samples of Milk, Buttermilk and Cream

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Pints.	Cents.		
1906.			District of Ottawa— Concluded.				
May 7	Milk.....	29254	T. J. Caldwell, Aylmer Road.	1	3	Vendor...	Taken from wagon on street.
" 7	"	29255	J. B. Dowler, Ottawa East.	1	3	"	" ..
" 7	"	29256	R. Nelson, Cedar Hill Dairy.	1	3	"	" ..
" 7	"	29257	H. W. Brooks, Ottawa East.	1	3	"	" ..
" 7	"	29258	P. Clarke, City Hall Square.	1	3	"	" ..
" 7	Cream...	29259	W.J. Eastcott, Ottawa.	1	15	E. Brown, Wellington St., Ottawa.	Purchased from vendor as sold customers.
" 7	Milk.....	29260	" ..	1	3	Graham Bros., Britannia.	" ..
" 7	Buttermilk ...	29261	Ottawa Dairy Co., Ltd.	1 qt.	5	Vendors.....	" ..
" 7	Milk... ..	29262	P. D. Herbert, Bank St., Ottawa.	1 pt.	3	Mr. McKenzie... ..	" ..
" 7	"	29263	Mrs. Currell, Ottawa..	1	4	Mr. Webster, Billings Bridge.	Taken from large can.
" 7	"	29264	" ..	1	4	R. Magee, Britannia..	" ..
" 7	"	29266	D. B. Turner, Nicholas St., Ottawa.	1	3	Ottawa Dairy Co., Ltd., Ottawa.	" ..
" 25	"	29277	Ottawa Dairy Co., Ltd., Ottawa.	1	3	Supplied by contract dairymen.	Sample taken on the street.
" 25	"	29278	" ..	1	3	" ..	" ..
" 25	"	29279	" ..	1	3	" ..	" ..
" 25	" ..	29280	P. Clarke, Ottawa...	1	3	Vendor... ..	" ..
" 25	" ..	29281	" ..	1	3	" ..	" ..
			District of Kingston— J. Hogan, Inspector.				
April 16	Whole Milk...	28590	T. J. Polley, Brock St., Kingston, Ont.	1	3	.....	Taken from office of the company. Put up in pint bottles for sale to the public.
" 16	" ...	28591	S. Kirk, Kingston, Ont.	1	3	.....	Taken from wagon on the street.

SESSIONAL PAPER No. 14

by the Public Analysts and in the Inland Revenue Laboratory—Continued.

AVERAGE OF ANALYSES OF SAMPLES SHOWING DIFFERENCES OVER 0.25 P.C. BUTTER FAT			RESULTS OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks by District and Chief Analysts.
Butter fat.	Other solids.	Total solids.	Specific gra- vity at 15° C.	Water.	Butter fat.	Other solids.	Total solids.			
p.c.	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.			
			1.0338	89.35	2.39	8.26	10.65	Dr. J. T. Donald .	29254	Watered.
				89.05	2.36	8.59	10.95			
			1.0330	88.90	2.48	8.62	11.10	A. Lemoine.	29254	
			1.0332	87.79	3.75	8.46	12.21	Dr. J. T. Donald .	29255	Pure.
				87.54	3.66	8.80	12.46			
			1.0330	87.48	3.81	8.71	12.52	A. Lemoine. .	29255	
			1.0319	86.59	5.17	8.24	13.41	Dr. J. T. Donald .	29256	Partly cream.
				83.31	5.18	8.51	13.69			
			1.0309	86.28	5.15	8.57	13.72	A. Lemoine.	29256	
			1.0308	88.85	3.24	7.91	11.15	Dr. J. T. Donald .	29257	Doubtful ; being below average in total solids
				88.62	3.28	8.10	11.38			
			1.0306	88.60	3.30	8.10	11.40	A. Lemoine.	29257	
			1.0336	85.13	5.87	9.00	14.87	Dr. J. T. Donald .	29258	
				88.90	1.48	9.62	11.10			
3.67	9.31	12.98	1.0360	88.95	1.47	9.58	11.05	A. Lemoine.	29258	Genuine. (T.M.)
			1.0150	71.85	21.77	6.38	28.15	Dr. J. T. Donald .	29259	Pure.
								A. Lemoine.	29259	Broken.
			1.0319	88.50	3.24	8.26	11.50	Dr. J. T. Donald .	29260	Doubtful ; being below average in total solids
				88.24	3.30	8.46	11.76			
			1.0309	88.30	3.30	8.40	11.70	A. Lemoine.	29260	
			1.0331	92.24	0.16	7.60	7.76	Dr. J. T. Donald .	29261	Pure.
				92.06	0.15	7.79	7.94			
			1.0309	92.04	0.18	7.78	7.96	A. Lemoine.	29261	
			1.0330	87.83	3.64	8.53	12.17	Dr. J. T. Donald .	29262	"
				87.75	3.50	8.75	12.25			
			1.0330	87.72	3.56	8.72	12.28	A. Lemoine.	29262	
			1.0322	87.13	4.42	8.45	12.87	Dr. J. T. Donald .	29263	"
				87.02	4.52	8.46	12.98			
			1.0309	87.08	4.50	8.42	12.92	A. Lemoine.	29263	
			1.0300	87.39	4.89	7.72	12.61	Dr. J. T. Donald .	29264	"
				86.86	5.00	8.14	13.14			
			1.0299	86.85	5.01	8.14	13.15	A. Lemoine.	29264	
			1.0332	88.70	2.76	8.54	11.30	Dr. J. T. Donald .	29266	Watered.
				88.57	2.82	8.61	11.43			
			1.0330	88.61	2.70	8.69	11.39	A. Lemoine.	29266	
			1.0307	86.13	5.50	8.37	13.87	Dr. J. T. Donald .	29277	Genuine.
				88.36	2.01	9.13	11.14			
3.77	8.23	12.00	1.0334	88.86	2.05	9.09	11.14	Miss S. E. Wright.	29277	
			1.0323	88.18	3.47	8.35	11.82	Dr. J. T. Donald .	29278	"
				87.79	3.57	8.64	12.21			
			1.0324	87.78	3.55	8.67	12.22	Miss S. E. Wright.	29278	
			1.0335	88.28	3.28	8.44	11.72	Dr. J. T. Donald .	29279	Doubtful.
				87.76	3.49	8.75	12.24			
			1.0324	87.78	3.49	8.73	12.22	Miss S. E. Wright.	29279	
			1.0270	82.83	9.23	7.94	17.17	Dr. J. T. Donald .	29280	Partly cream.
				87.95	3.18	8.87	12.05			
6.22	8.41	14.63	1.0324	87.91	3.21	8.88	12.09	Miss S. E. Wright.	29280	
			1.0336	88.69	2.82	8.49	11.31	Dr. J. T. Donald .	29281	Watered.
				88.03	2.94	9.03	11.97			
			1.0324	88.02	2.91	9.07	11.98	Miss S. E. Wright.	29281	
			1.0318	86.77	4.64	8.59	13.23	Dr. W. H. Ellis. .	28590	
				89.54	1.81	8.65	10.46			
3.22	8.62	11.84	1.0336	89.64	1.80	8.56	10.36	Miss E. Davidson.	28590	Under average in total solids (T. M.)
			1.0338	87.68	3.68	8.64	12.32	Dr. W. H. Ellis. .	28591	Genuine.
				87.40	3.77	8.83	12.60			
			1.0314	87.49	3.69	8.82	12.51	Miss E. Davidson.	2859	

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RESULTS of examining 367 Samples of Milk, Buttermilk and Cream

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Pints.	Cents.		
1906			<i>District of Kingston—Continued.</i>				
April 16	Whole Milk..	28592	E. Gardiner, Brock St., Kingston, Ont.	1	3	.....	Taken from wagon on the street.
" 16	"	28593	J. J. Wilmot, Kingston, Ont.	1	3	Pittsburg Township...	Pittsburg township as brought to the factory of T. J. Polley.
" 16	"	28594	D. D. Rodgers, Kingston.	1	3	" "	" " ..
" 16	"	28595	W. McCallum Kingston.	1	3	Kingston "	Kingston township as brought to the factory of T. J. Polley.
" 16	"	28596	O. Seale, Kingston....	1	3	Pittsburg "	Pittsburg township as brought to the factory of T. J. Polley.
" 16	"	28597	G. Vanhorn "	1	3	" "	" " ..
" 16	"	28598	James Acton "	1	3	Williamsville....	Williamsville. Taken from wagon on street.
" 16	"	28599	John Abbott "	1	3	Kingston Junction....	Kingston Junction. Taken from wagon on street.
" 16	"	28600	H. S. Wilder "	1	3	Williamsville.....	Williamsville. Taken from wagon.
" 17	"	29401	D. Carenter "	1	3	Kingston Junction....	Kingston Junction. Taken from wagon on street.
" 17	"	29402	J. F. Murton "	1	3	Portsmouth.....	Portsmouth. Taken from wagon on street.
" 17	"	29403	A. Murray "	1	3	Oak Point Farm....	Taken from wagon on the street.
" 18	"	29404	H. G. Moorhouse, Brockville.	1	3	.....	" " ..
" 18	"	29405	J. Morrison, Brockville	1	3	.....	" " ..
" 18	"	29406	R. A. Ferguson " ..	1	3	.....	" " ..
" 18	"	29407	D. McRoberts " ..	1	3	Island City Dairy.....	" " ..
" 18	"	29408	J. Beehler " ..	1	3	.....	" " ..
" 19	"	29416	James Small, Water St., Prescott.	1	3	.....	.....
" 19	Cream.....	29417	" " ..	1	15	.....	.....

SESSIONAL PAPER No. 14

by the Public Analysts and in the Inland Revenue Laboratory—Continued.

AVERAGE OF ANALYSES OF SAMPLES SHOWING DIFFERENCES OVER 0·25 P.C. BUTTER FAT			RESULTS OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks by District and Chief Analysts.
Butter fat.	Other solids.	Total solids.	Specific gra- vity at 15° C.	Water.	Butter fat.	Other solids.	Total solids.			
p.c.	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.			
.....	.....	....	1·0327	88·12	3·42	8·46	11·88	Dr. W. H. Ellis...	28592	Genuine.
				87·73	3·73	8·54	12·27			
3·57	8·50	12·07	1·0314	87·64	3·72	8·64	12·36	Miss E. Davidson.	28592	
			1·0348	88·40	2·91	8·69	11·60	Dr. W. H. Ellis...	28593	
				87·59	3·74	8·67	12·41			
3·34	8·71	12·05	1·0314	87·50	3·78	8·72	12·50	Miss E. Davidson.	28593	Unadulterated (T.M.)
			1·0348	88·27	3·12	8·61	11·73	Dr. W. H. Ellis...	28594	
				89·17	2·22	8·61	10·83			
2·68	8·54	11·22	1·0346	89·28	2·25	8·47	10·72	Miss E. Davidson.	28594	Partly skimmed(T.M.)
			1·0348	88·07	3·43	8·50	11·93	Dr. W. H. Ellis...	28595	Genuine.
				87·96	3·52	8·52	12·04			
			1·0314	87·88	3·59	8·53	12·12	Miss E. Davidson.	28595	
			1·0307	87·04	4·77	8·19	12·96	Dr. W. H. Ellis...	28596	
				88·95	2·55	8·50	11·05			
3·66	8·34	12·00	1·0314	89·02	2·52	8·46	10·98	Miss E. Davidson.	28596	Unadulterated (T.M.)
			1·0329	88·57	3·15	8·28	11·43	Dr. W. H. Ellis...	28597	Under average in total solids.
				88·77	2·82	8·41	11·23			
2·98	8·35	11·33	1·0314	88·88	2·76	8·36	11·12	Miss E. Davidson.	28597	
			1·0327	88·83	2·97	8·20	11·17	Dr. W. H. Ellis...	28598	" "
				88·14	3·17	8·69	11·86			
			1·0306	88·16	3·18	8·66	11·84	Miss S. E. Wright	28598	
			1·0317	88·18	3·28	8·54	11·82	Dr. W. H. Ellis...	28599	Genuine.
				87·69	3·57	8·74	12·31			
3·42	8·64	12·06	1·0318	87·70	3·54	8·76	12·30	Miss S. E. Wright	28599	
			1·0327	87·87	3·46	8·67	12·13	Dr. W. H. Ellis...	28600	"
				87·45	3·59	8·96	12·55			
			1·0328	87·46	3·55	8·99	12·54	Miss S. E. Wright	28600	
			1·0295	88·97	3·55	7·84	11·03	Dr. W. H. Ellis...	29401	Adulterated by admix- ture with water.
				88·62	3·54	7·84	11·38			
			1·0280	88·58	3·54	7·88	11·42	Miss S. E. Wright	29401	
			1·0348	88·06	3·31	8·63	11·94	Dr. W. H. Ellis...	29402	Under average in cream.
				87·87	2·98	9·15	12·13			
3·14	8·89	12·03	1·0310	87·90	2·96	9·14	12·10	Miss S. E. Wright	29402	
			1·0307	88·26	3·51	8·23	11·74	Dr. W. H. Ellis...	29403	Under average in total solids.
				88·25	3·46	8·29	11·75			
			1·0307	88·28	3·46	8·26	11·72	Miss S. E. Wright	29403	
			1·0346	88·99	2·80	8·21	11·01	Dr. W. H. Ellis...	29404	" "
				88·73	2·96	8·31	11·27			
			1·0302	88·75	2·93	8·32	11·25	Miss S. E. Wright	29404	
			1·0346	88·54	2·97	8·49	11·46	Dr. W. H. Ellis...	29405	" "
				88·27	3·32	8·41	11·73			
3·14	8·45	11·59	1·0302	88·30	3·21	8·49	11·70	Miss S. E. Wright	29405	
			1·0356	89·34	2·65	8·01	10·66	Dr. W. H. Ellis...	29406	" "
				89·06	2·81	8·13	10·94			
			1·0302	89·14	2·79	8·07	10·86	Miss S. E. Wright	29406	
			1·0356	88·29	3·18	8·53	11·71	Dr. W. H. Ellis...	29407	Under average in cream.
				88·25	3·10	8·65	11·75			
			1·0312	88·25	3·14	8·61	11·75	Miss S. E. Wright	29407	
			1·0337	88·39	3·09	8·52	11·61	Dr. W. H. Ellis...	29408	" "
				88·18	3·15	8·67	11·82			
			1·0312	88·17	3·12	8·71	11·83	Miss S. E. Wright	29408	
			1·0346	87·40	3·57	9·03	12·60	Dr. W. H. Ellis...	29416	Genuine.
				87·34	3·18	9·48	12·66			
3·37	9·24	12·61	1·0312	87·37	3·18	9·45	12·63	Miss S. E. Wright	29416	"
			1·0000	62·25	32·24	5·51	37·75	Dr. W. H. Ellis...	29417	Cream.
				60·38	34·87	4·75	39·62			
33·51	5·19	38·70		60·34	34·79	4·87	39·66	Miss S. E. Wright	29417	

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RESULTS of examining 367 Samples of Milk, Buttermilk and Cream

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Pints.	Cents.		
1906.			<i>District of Kingston—</i> <i>Concluded.</i>				
April 19	Whole Milk...	29418	James M c F a r l a n e, Prescott.	1	3	.....	Taken from wagon on the street.
" 19	" ...	29419	S. Moore, Prescott ...	1	3	.....	" " ..
" 19	" ...	29420	J. Smith "	1	3	.....	" " ..
			<i>District of Toronto—T.</i> <i>Kidd, Acting Inspec-</i> <i>tor.</i>				
May 30	Milk	30052	G. M. Robinson 37 Arthur St., Toronto.	1	5	Vendor. ..	Supplied by farmer outside of To r- onto.
" 30	"	30053	City Dairy Co., Ltd., Spadina Cresent, wagon No. 23.	1	5	"	Taken from wagon on the street.
" 30	"	30054	Price & Sons Dairy, 212 King St., East, Tor- onto .	1	5	"	Taken from wagon on the street.
" 30	"	30055	Allen Cowley, 289 Queen St., Toronto..	1	5	"	Taken at vendors dairy.
" 30	"	30056	M. J. Ferguson, 82 Power St., Toronto.	1	5	"	Supplied vendor by different parties.
" 30	"	30057	D. A. Walsh, 197 Far- ley Ave., Toronto; wagon No. 2	1	5	"	Bought from far- mer who delivers milk.
" 30	"	30058	Simon Goodwin, 268 Parliament St., Tor- onto	1	5	W. Innis, Scarboro Township.	.....
" 30	"	30059	J. V. Moore 199 Wil- ton Ave., Toronto.	1	5	John Ditt, Scarboro...	.....
" 31	"	30060	City Dairy Co., Ltd..	1	5	Ar th u r Stephenson, Scarboro.	Taken from wagon on street.
" 31	"	30061	J a m e s T a y l o r, 245 Church St., Toronto.	1	5	Mr. Laphaugh, Scar- boro	.....
" 31	"	30062	J. G. Holmes, 336 Palmerston Avenue, Toronto.	1	5	Scott, Brownstead, Pal- merston Ave., Tor- onto.	.....
" 31	"	30063	D. J. Bennons, 84 Devenport Road, To- ronto.	1	5	Prescott Dairy, Deven- port Road, Toronto.	.....
June 2	"	30064	John Gibb, Wood Lawn Dairy.	1	5	Mr. Grant, Scarboro, near Toronto.	.....
" 2	Cream.....	30065	City Dairy Co., Ltd...	1	5	Vendors ..	Taken from wagon on street.
" 2	Milk	30066	Alexander Dundas, Bencroft Road.	1	5	.....	.....
" 2	"	30067	A. J. England's Dairy, Davisville.	1	5	Vendor ..	Taken from wagon on street.

SESSIONAL PAPER No. 14

by the Public Analysts and in the Inland Revenue Laboratory—Continued.

AVERAGE OF ANALYSES OF SAMPLES SHOWING DIFFERENCES OVER 0·25 P.C. BUTTER FAT			RESULTS OF ANALYSIS.					Names of Analyst.	No. of Sample.	Remarks by District and Chief Analysts.
Butter fat.	Other solids.	Total solids.	Specific gra- vity at 15° C.	Water.	Butter fat.	Other solids.	Total solids.			
p.c.	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.			
			1·0322	87·90	3·68	8·42	22·10	Dr. W. H. Ellis ..	29418	Genuine.
				88·25	3·20	8·55	11·75			
3·45	8·49	11·94	1·0302	88·22	3·22	8·56	11·78	Miss S. E. Wright	29418	
			1·0342	88·56	3·02	8·42	11·44	Dr. W. H. Ellis ..	29419	Under average in
				88·07	3·21	8·72	11·93			solids.
			1·0312	88·14	3·22	8·64	11·86	Miss S. E. Wright	29419	
			1·0352	88·11	3·25	8·54	11·89	Dr. W. H. Ellis ..	29420	Under average in
				88·02	3·28	8·70	11·98			cream.
			1·0307	88·02	3·23	8·75	11·98	Miss S. E. Wright	29420	
			1·0331	87·49	3·63	8·88	12·51	Dr. W. H. Ellis ..	30052	
			1·0306	88·73	2·76	8·51	11·27			
3·19	8·70	11·89		88·70	2·75	8·55	11·30	Miss S. E. Wright	30052	Under average in
			1·0321	88·73	2·75	8·52	11·27	Dr. W. H. Ellis ..	30053	cream (T.M.)
				87·86	3·24	8·90	12·14			Partly skimmed.
2·99	8·72	11·71	1·0316	87·85	3·23	8·92	12·15	Miss S. E. Wright	30053	
			1·0342	87·47	3·54	8·99	12·53	Dr. W. H. Ellis ..	30054	Genuine.
				87·36	3·48	9·16	12·64			
			1·0316	87·36	3·50	9·14	12·64	Miss S. E. Wright	30054	
			1·0290	89·19	2·98	7·83	10·81	Dr. W. H. Ellis ..	30055	Adulterated by admix- ture with water.
				89·49	2·80	7·71	10·51			
			1·0286	89·50	2·78	7·72	10·50	Miss S. E. Wright	30055	
			1·0331	88·38	3·30	8·32	11·62	Dr. W. H. Ellis ..	30056	Under average in total
				88·55	3·10	8·35	11·45			solids.
			1·0306	88·47	3·22	8·31	11·53	Miss S. E. Wright	30056	
			1·0301	88·74	3·18	8·08	11·26	Dr. W. H. Ellis ..	30057	" "
				88·93	3·10	7·97	11·07			
			1·0286	88·90	3·10	8·00	11·10	Miss S. E. Wright	30057	
			1·0306	86·55	5·06	8·38	13·44	Dr. W. H. Ellis ..	30058	Genuine.
				86·82	4·66	8·52	13·18			
4·86	8·45	13·31	1·0296	86·84	4·61	8·55	13·16	Miss S. E. Wright	30058	
			1·0295	87·49	4·36	8·15	12·51	Dr. W. H. Ellis ..	30059	Under average in total
				88·31	3·46	8·23	11·69			solids.
3·91	8·19	12·10	1·0306	88·28	3·44	8·28	11·72	Miss S. E. Wright	30059	
			1·0329	88·09	3·46	8·45	11·91	Dr. W. H. Ellis ..	30060	" "
				88·11	2·89	9·00	11·89			
3·19	8·72	11·91	1·0327	88·09	2·92	8·99	11·91	Miss S. E. Wright	30060	
			1·0303	89·26	2·90	7·84	10·74	Dr. W. H. Ellis ..	30061	Adulterated by admix- ture with water.
				88·76	2·97	8·27	11·24			
			1·0306	88·55	3·04	8·41	11·45	Miss S. E. Wright	30061	
			1·0292	88·87	3·62	7·51	11·13	Dr. W. H. Ellis ..	30062	" "
				89·04	3·19	7·74	10·93			
3·40	7·63	11·03	1·0296	89·04	3·10	7·86	10·96	Miss S. E. Wright	30062	
			1·0292	90·09	2·44	7·47	9·91	Dr. W. H. Ellis ..	30063	" "
				89·13	2·90	7·93	10·87			
2·67	7·70	10·37	1·0296	89·17	2·90	7·93	10·83	Miss S. E. Wright	30063	
			1·0329	89·21	2·48	8·31	10·79	Dr. W. H. Ellis ..	30064	Under average in total
				88·79	2·53	8·68	11·21			solids.
			1·0325	88·77	2·51	8·72	11·23	Miss S. E. Wright	30064	
			1·0339	87·56	3·60	8·84	12·44	Dr. W. H. Ellis ..	30065	Genuine. } These two
				87·25	3·48	9·27	12·75			samples
			1·0325	87·18	3·51	9·31	12·82	Miss S. E. Wright	30065	have no
				79·43	12·57	8·00	20·57			doubt been
				79·35	12·63	8·02	20·65	Miss S. E. Wright	30066	interch'd.
			1·0324	87·48	3·90	8·62	12·52	Dr. W. H. Ellis ..	30067	"
				87·10	3·85	9·05	12·90			
			1·0325	87·13	3·80	9·07	12·87	Miss S. E. Wright	30067	

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RESULTS of examining 367 Samples of Milk, Buttermilk and Cream

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Pints.	Cents.		
1906.			District of Toronto— Concluded.				
June 5	Milk.	30068	City Dairy Co., Ltd...	1	5	J. Baker, Carrville, Ont	Sample taken at dairy.
" 5	"	30069	" "	1	5	J. F. Walker, Aurora, Ont	Sample taken at dairy.
" 5	"	30070	" "	1	5	B. Grady, Elgin Mills, Ont	Sample taken at dairy.
" 5	"	30071	J. McLean, Richmond Hill.	1	5	Vendor.....	
" 5	"	30072	Harry Taylor, 245 Church St., Toronto.	1	5	Mr. McGaw, Scarboro.	
" 6	"	30073	S. S. Goodwin, 268 Parliament St., Toronto.	1	5	Unknown.....	Vendor does not know farmer's name.
" 6	"	30074	City Dairy Co., Ltd...	1	5	Vendors.....	W.J. Davis, driver of wagon who said he sells by wholesale only.
" 6	"	30075	J. Grapper, 234 George St., Toronto.	1	5	Moddle Farm Dairy...	
" 7	"	30076	George Page, 82 Edna St., Toronto.	1	5	Unknown.....	Taken from wagon on street.
" 7	"	30077	Edward Sutton, Toronto.	1	5	Vendor.....	Eglington Dairy, Toronto.
" 7	"	30078	George Avery, Eglington Ave., Toronto.	1	5	".....	
" 7	"	30079	J. J. Kelly, 108 Shuter St., Toronto.	1	5	Dunlops Dairy, 212 Wilton Ave., Toronto	
" 8	"	30080	John English, 66 Jeffery Ave., Toronto.	1	5	Thomas English, Olive Farm Dairy.	
" 8	"	30081	George Grace, 424 Ontario St., Toronto.	1	5	Vendor.....	
" 8	"	30082	Edward Shine, Brookfield Dairy, 26 Brookfield.	1	5	".....	
" 8	"	30083	Norman W.W. Brown, 433 Parliament St., Toronto.	1	5	F. Law, Scarboro, Ont.	Taken from wagon.
			District of London— T. Kidd, Inspector.				
April 20	Milk.....	22474	James Parrish, Mitchell.	1½	5	Vendor.....	Taken from wagon on street.
" 20	"	22475	Allan Casey, Mitchell.	1½	5	".....	" "

SESSIONAL PAPER No. 14

by the Public Analysts and in the Inland Revenue Laboratory—*Continued.*

AVERAGE OF ANALYSES OF SAMPLES SHOWING DIFFERENCES OVER 0·25 P.C. BUTTER FAT			RESULTS OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks by District and Chief Analysts.
Butter fat.	Other solids.	Total solids.	Specific gra- vity at 15° C.	Water.	Butter fat.	Other solids.	Total solids.			
p.c.	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.			
			1·0344	86·70	4·34	8·96	13·30	Dr. W. H. Ellis...	30068	Genuine.
				88·46	3·19	8·35	11·54			
3·76	8·66	12·42	1·0304	88·52	3·16	8·32	11·48	Miss S.E. Wright	30068	
			1·0339	86·76	4·37	8·87	13·24	Dr. W. H. Ellis...	30069	"
				87·40	3·61	8·99	12·60			
3·99	8·93	12·92	1·0325	87·41	6·61	8·98	12·59	Miss S.E. Wright	30069	
			1·0333	86·99	4·30	8·71	13·01	Dr. W. H. Ellis...	30070	"
				87·31	4·24	8·45	12·69			
			1·0356	87·31	4·29	8·40	12·69	Miss S.E. Wright	30070	
			1·0307	87·63	4·16	8·21	12·37	Dr. W. H. Ellis...	30071	"
				87·29	3·39	9·32	12·71			
3·77	8·77	12·54	1·0325	87·34	3·38	9·28	12·66	Miss S.E. Wright	30071	
			1·0318	88·05	3·68	8·27	11·95	Dr. W. H. Ellis...	30072	Under average in total solids.
3·35	8·42	11·77	1·0304	88·49	3·00	8·51	11·51	Miss S.E. Wright	30072	
			1·0328	87·37	4·06	8·57	12·63	Dr. W. H. Ellis...	30073	Genuine.
				87·95	3·15	8·90	12·05			
3·60	8·74	12·34	1·0325	87·94	3·13	8·93	12·06	Miss S.E. Wright	30073	
			1·0339	87·29	4·13	8·58	12·71	Dr. W. H. Ellis...	30074	"
				87·80	3·31	8·89	12·20			
3·72	8·77	12·49	1·0333	87·73	3·32	8·95	12·27	Miss S.E. Wright	30074	
			1·0302	88·19	3·71	8·10	11·81	Dr. W. H. Ellis...	30075	Under average in total solids.
				88·58	3·20	8·22	11·42			
3·45	8·16	11·61	1·0323	88·62	3·17	8·21	11·38	Miss S.E. Wright	30075	
			1·0298	89·09	2·86	8·05	10·91	Dr. W. H. Ellis...	30076	"
				88·75	2·90	8·35	11·25			"
			1·0299	88·81	2·91	8·28	11·19	Miss S.E. Wright	30076	
			1·0319	87·51	3·62	8·87	12·49	Dr. W. H. Ellis...	30077	Genuine.
				87·33	3·69	8·98	12·67			
			1·0320	87·29	3·72	8·99	12·71	Miss S.E. Wright	30077	
			1·0313	87·81	3·46	8·73	12·19	Dr. W. H. Ellis...	30078	"
				87·66	3·42	8·92	12·34			
			1·0320	87·67	3·40	8·93	12·33	Miss S.E. Wright	30078	
			1·0325	88·84	2·45	8·71	11·16	Dr. W. H. Ellis...	30079	Partly skimmed.
				88·71	2·42	8·87	11·29			
			1·0309	88·72	2·45	8·83	11·28	Miss S.E. Wright	30079	
			1·0309	88·34	3·37	8·29	11·66	Dr. W. H. Ellis...	30080	Under average in total solids.
				88·25	3·19	8·56	11·75			
			1·0309	88·20	3·12	8·68	11·80	Miss S.E. Wright	30080	
			1·0309	88·25	3·40	8·35	11·75	Dr. W. H. Ellis...	30081	
				88·54	2·87	8·59	11·46			
3·14	8·45	11·59	1·0304	88·56	2·88	8·56	11·44	Miss S.E. Wright	30081	Under average in cream (T.M.)
			1·0320	89·60	3·75	8·65	12·40	Dr. W. H. Ellis...	30082	Genuine.
				88·01	3·30	8·69	11·99			
3·52	8·67	12·19	1·0304	87·99	3·23	8·78	12·01	Miss S.E. Wright	30082	
			1·0289	89·17	3·16	7·67	10·83	Dr. W. H. Ellis...	30083	Adulterated by admix- ture with water.
				89·70	2·50	7·80	10·30			
2·83	7·73	10·56	1·0289	89·75	2·34	7·91	10·25	Miss S.E. Wright	30083	
			1·0332	87·68	4·07	8·25	12·32	Dr. W. H. Ellis ...	22474	Genuine.
			1·0309	87·79	3·87	8·34	12·21	J. G. A. Valin....	22474	
				87·81	3·82	8·37	12·19			
			1·0322	88·98	3·18	7·84	11·02	Dr. W. H. Ellis ...	22475	Adulterated by ad- mixture with water.
			1·0299	88·21	3·13	8·66	11·79	J. G. A. Valin....	22475	
				88·12	3·11	8·77	11·88			

6-7 EDWARD VII., A. 1907

RESULTS of examining 367 Samples of Milk, Buttermilk and Cream

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Pints.	Cents.		
1906.			<i>District of London</i> Continued.				
April 21	Milk.	22477	Daniel Grumet, Mc-Kellop Township, Co. Huron.	1½	5	Vendor.....	Taken from wagon on street.
" 21	"	22478	McIntosh Bros., Mc-Kellop Township, Co. Huron.	1½	5	"	" "
" 23	"	22481	Weton Bros., Brick street, London.	1	5	"	" "
" 23	"	22482	Charles Ashman, 1002 Wellington street, London.	1	5	James Anderson, London (outskirts).	" "
" 24	"	22483	Charles O'Brine, London Township.	1	5	Vendor.....	" "
" 24	"	22484	J. R. Leaker, 187 Langort street, London.	1	5	Smith Bros., London..	" "
" 25	"	22486	T. C. Mallery, St. Thomas.	1	5	Alex. Anderson, Yarmot Township, St. Thomas P.O.	" "
" 25	"	22487	Milton Hatch, St. Thomas.	1	5	Vendor.....	" "
" 26	"	22489	James Swift, Sarnia.	1	5	Vendor's son..	" "
" 26	"	22490	Andrew Roberts, Sarnia Township.	1	5	Vendor.....	" "
" 26	"	22491	Josiah Smith, Sarnia Township.	1	5	"	" "
" 26	"	22492	James Stead, Sarnia Township.	1	5	"	" "
" 27	"	22495	Edmond Stanton, London Township.	1	5	"	" "
" 27	"	22496	J. Foreman, Tecumseth Ave., London.	1	5	"	" "
" 27	"	22497	J. Weir, London.....	1	5	Thomas Davidson, London West P.O.	" "
" 27	"	22498	Frank Dobbie, London.	1	5	J. R. McLaurin, London Township.	" "
May 5	"	30002	John Porter, sr., Goderich.	1	5	John Porter, jr., Goderich Township.	" "
" 5	"	30003	Samuel Bissett, Goderich, Saltfleet, P.O.	1	5	Samuel Bissett, Colbourn Township, Saltfield P.O.	" "
" 5	"	30004	Thomas Tilt, Goderich	1	5	Vendor.....	" "
" 5	"	30005	John Beattie, Goderich	1	5	"	" "
" 7	"	30006	John Waldie, Stratford, Ont.	1	5	"	" "

SESSIONAL PAPER No. 14

by the Public Analysts and in the Inland Revenue Laboratory—*Continued.*

AVERAGE OF ANALYSES OF SAMPLES SHOWING DIFFERENCES OVER 0·25 P.C. BUTTERFAT			RESULTS OF ANALYSIS.					Name of Analyst	No. of Sample.	Remarks by District and Chief Analysts.
Butter fat.	Other solids.	Total solids.	Specific gra- vity at 15° C.	Water.	Butterfat.	Other solids.	Total solids.			
p.c.	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.			
.....	1·0352	87·97	3·39	8·64	12·03	Dr. W. H. Ellis ..	22477	Under average in cream.
.....	1·0356	88·42	2·84	8·74	11·58	Dr. W. H. Ellis ..	22478	Partly skimmed.
.....	1·0330	88·52	2·85	8·63	11·48	J. G. A. Valin....	22478	
.....	88·38	2·85	8·77	11·62			
.....	1·0356	88·15	3·54	8·31	11·85	Dr. W. H. Ellis ..	22481	Under average in solids.
.....	1·0323	88·14	3·53	8·33	11·86	J. G. A. Valin....	22481	
.....	88·10	3·55	8·35	11·90			
.....	1·0320	88·38	3·25	8·37	11·62	Dr. W. H. Ellis ..	22482	Under average in total solids.
.....	1·0323	88·68	3·02	8·30	11·32	J. G. A. Valin....	22482	
.....	88·78	2·99	8·23	11·22			
.....	1·0307	88·38	3·56	8·06	11·62	Dr. W. H. Ellis ..	22483	Under average in total solids.
.....	1·0312	88·40	3·51	8·09	11·60	J. G. A. Valin....	22483	
.....	88·25	3·54	8·21	11·75			
.....	1·0275	88·96	3·69	7·35	11·04	Dr. W. H. Ellis ..	22484	Adulterated by ad-
.....	1·0260	88·19	3·68	7·13	10·81	J. G. A. Valin....	22484	mixture with water.
.....	89·15	3·69	7·16	10·85			
.....	1·0343	87·58	3·41	9·01	12·42	J. G. A. Valin....	22486	Genuine.
.....	87·57	3·43	9·00	12·43			
.....	1·0335	88·01	2·24	9·75	11·99	Dr. W. H. Ellis ..	22487	Partly skimmed.
2·65	9·20	11·85	1·0323	88·24	3·07	8·69	11·76	J. G. A. Valin....	22487	
.....	88·29	3·06	8·65	11·71			
.....	1·0325	88·76	2·78	8·46	11·24	Dr. W. A. Ellis ..	22489	Under average in total solids.
.....	1·0312	88·92	2·86	8·22	11·08	J. G. A. Valin....	22489	
.....	88·95	2·85	8·20	11·05			
.....	1·0325	87·58	3·98	8·44	12·42	Dr. W. H. Ellis ..	22490	Genuine.
3·74	8·54	12·28	1·0323	87·98	3·39	8·63	12·02	J. G. A. Valin ...	22490	
.....	87·86	3·51	8·63	12·14			
.....	1·0341	87·86	3·43	8·71	12·14	Dr. W. H. Ellis ..	22491	"
.....	1·0333	87·75	3·55	8·70	12·25	J. G. A. Valin....	22491	
.....	87·78	3·33	8·99	12·22			
.....	1·0336	87·46	3·93	8·61	12·54	Dr. W. H. Ellis ..	22492	"
.....	1·0323	87·43	3·83	8·74	12·57	J. G. A. Valin ...	22492	
.....	87·44	3·81	8·75	12·56			
.....	1·0305	88·63	3·33	8·04	11·37	Dr. W. H. Ellis ..	22495	Under average in total solids.
.....	1·0292	88·64	3·29	8·07	11·36	J. G. A. Valin....	22495	
.....	88·66	3·27	8·07	11·34			
.....	1·0336	87·44	3·74	8·82	12·56	Dr. W. H. Ellis ..	22496	Genuine.
.....	1·0323	87·42	3·49	9·09	12·58	J. G. A. Valin....	22496	
.....	87·41	3·62	8·97	12·59			
.....	1·0285	89·26	3·17	7·57	10·74	Dr. W. H. Ellis ..	22497	Adulterated by ad-
.....	1·0282	89·31	3·02	7·67	10·69	J. G. A. Valin ...	22497	mixture with water.
.....	89·36	2·98	7·66	10·64			
.....	1·0336	87·98	3·37	8·65	12·02	Dr. W. H. Ellis ..	22498	Under average in cream.
3·24	8·70	11·94	1·0333	88·13	3·12	8·75	11·87	J. G. A. Valin....	22498	
.....	88·09	3·11	8·80	11·91			
.....	1·0339	88·78	2·50	8·70	11·22	Dr. W. H. Ellis ..	30002	Partly skimmed.
.....	1·0323	87·82	3·44	8·74	12·18	Dr. W. H. Ellis ..	30003	Genuine.
3·65	8·49	12·14	1·0326	87·90	3·86	8·24	12·10	J. G. A. Valin... .	30003	
.....	87·97	3·89	8·14	12·03			
.....	1·0340	87·39	3·49	9·12	12·61	Dr. W. H. Ellis ..	30004	"
.....	1·0337	87·52	3·52	8·96	12·48	J. G. A. Valin....	30004	
.....	87·54	3·54	8·92	12·46			
.....	1·0298	87·49	3·82	8·69	12·51	Dr. W. H. Ellis ..	30005	"
.....	1·0296	87·72	4·04	8·24	12·28	J. G. A. Valin... .	30005	
.....	87·74	4·08	8·18	12·26			
.....	1·0329	88·28	3·21	8·51	11·72	Dr. W. H. Ellis ..	30006	Under average in cream.
.....	88·46	3·26	8·28	11·54			
.....	1·0317	88·38	3·26	8·36	11·62	J. G. A. Valin....	30006	

6-7 EDWARD VII., A. 1907

RESULTS of examining 367 Samples of Milk, Buttermilk and Cream

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Pints.	Cents.		
1906.			<i>District of London—</i> Concluded.				
May 7	Milk.....	30007	R. S. Beattie, Ellis Township, Stratford P.O.	1	5	Vendor	Bought from R.M. Beattie. Taken from wagon on street in Strat- ford.
			<i>District of Manitoba—</i> W. M. Conklin, In- spector.				
May 4	Milk.....	25749	Victor Holland, Vir- den.	1	5	.....	.....
" 4	"	25750	R. Muir, Virden.....	1	5	.....	.....
" 5	"	25751	H. H. Jennings, Moo- somin.	1	5	.....	.....
" 7	"	25752	W. Adams, Indian Head.	1	5	.....	.....
" 7	"	25753	Thos. Duggan, Indian Head.	1	5	.....	.....
" 8	"	25754	J. V. Boyd, Regina...	1	5	.....	.....
" 8	"	25755	Geo. Broder, Regina..	1	5	.....	.....
" 10	"	25756	Mortson Bros., Bran- don.	1	5	.....	.....
" 10	"	25757	Brandon Creamery Co., Brandon.	1	5	Milk Supply Co.....	.....
" 10	"	25758	R. G. Percy, Brandon.	1	5	.....	.....
" 10	"	25759	Geo. Garrioch, Portage la Prairie.	1	5	.....	.....
" 10	"	25760	A. Kirk, Portage la Prairie.	1	5	.....	.....
" 15	"	25761	John Flause, Head- ingly.	1	5	.....	.....
" 15	"	25762	Chas. Niblock, Winni- peg.	1	.....	.....	.....
" 15	"	25763	W. G. Speirs, Winni- peg.	1	.....	.....	.....
" 15	"	25764	R. Jefferson, Winni- peg.	1	.....	.....	.....
" 15	"	25765	J. Van Walleghe, Win- nipeg.	1	.....	.....	.....

SESSIONAL PAPER No. 14

by the Public Analysts and in the Inland Revenue Laboratory—*Continued.*

AVERAGE OF ANALYSES OF SAMPLES SHOWING DIFFERENCES OVER 0·25 P.C. BUTTER FAT			RESULTS OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks by District and Chief Analysts.
Butter fat.	Other solids.	Total solids.	Specific gra- vity at 15° C.	Water.	Butter fat.	Other solids.	Total solids.			
p.c.	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.			
.....	.....	.....	1·0318	87·75	3·59	8·66	12·25	Dr. W. H. Ellis ..	30007	Genuine.
			1·0317	87·96	3·69	8·35	12·04	J. G. A. Valin....	30007	
				87·93	3·63	8·44	12·07			
.....	.....	.....	1·0330	86·55	3·90	9·55	13·45	Dr. C. J. Fagan ..	25749	Genuine.
				87·56	3·50	8·94	12·41			
3·70	9·37	13·07	1·0372	87·31	3·51	9·18	12·69	J. G. A. Valin....	25749	
.....	.....	.....	1·0310	88·15	3·10	8·75	11·85	Dr. C. J. Fagan ..	25750	
				88·74	2·70	8·56	11·26			Partly skimmed(T.M.)
2·90	8·64	11·54	1·0341	88·77	2·71	8·52	11·23	J. G. A. Valin....	25750	
.....	.....	.....	1·0320	89·95	2·36	8·49	10·85	Dr. C. J. Fagan ..	25751	
				89·45	2·22	8·33	10·55			Skimmed.
			1·0341	89·46	2·23	8·31	10·54	J. G. A. Valin....	25751	
.....	.....	.....	1·0360	88·92	1·48	9·60	11·08	Dr. C. J. Fagan ..	25752	
				89·18	1·56	9·26	10·82			
			1·0372	89·21	1·40	9·39	10·79	J. G. A. Valin....	25752	Bottle arrived broken; milk lost.
.....	.....	.....						Dr. C. J. Fagan ..	25753	
				88·39	3·37	8·24	11·61			Under average in total solids.
			1·0372	88·42	3·39	8·19	11·58	J. G. A. Valin....	25753	
.....	.....	.....	1·0310	87·40	3·80	8·80	12·60	Dr. C. J. Fagan ..	25754	Genuine.
				87·55	3·79	8·66	12·45			
			1·0362	87·67	3·63	8·70	12·33	J. G. A. Valin....	25754	
.....	.....	.....	1·0320	87·45	3·50	9·05	12·55	Dr. C. J. Fagan ..	25755	
				87·72	3·32	8·96	12·28			
			1·0372	87·82	3·38	8·80	12·18	J. G. A. Valin....	25755	
.....	.....	.....	1·0310	87·07	4·05	8·88	12·93	Dr. C. J. Fagan ..	25756	
				87·33	3·93	8·74	12·67			
			1·0372	87·35	3·87	8·78	12·65	J. G. A. Valin....	25756	Below average in solids not fat; probably cream added.
.....	.....	.....	1·0240	85·40	6·85	7·75	14·60	Dr. C. J. Fagan ..	25757	
				85·74	6·36	7·90	14·26			Low in solids, not fat; cream added.
6·62	7·71	14·33	1·0330	85·93	6·39	7·68	14·07	J. G. A. Valin....	25757	
.....	.....	.....	1·0220	82·70	9·40	7·90	17·30	Dr. C. J. Fagan ..	25758	Genuine.
				82·97	9·39	7·64	17·03			
			1·0246	83·19	9·58	7·23	16·81	J. G. A. Valin....	25758	
.....	.....	.....	1·0310	87·60	3·30	9·10	12·40	Dr. C. J. Fagan ..	25759	
				87·94	3·07	8·99	12·06			
			1·0306	87·91	3·07	9·02	12·09	Miss S. E. Wright.	25759	
.....	.....	.....	1·0280	88·46	3·40	8·10	11·50	Dr. C. J. Fagan ..	25760	Partly skimmed.
				88·59	3·55	7·86	11·41			
			1·0306	88·58	3·57	7·85	11·42	Miss S. E. Wright	25760	
.....	.....	.....	1·0320	88·94	2·61	8·45	11·06	Dr. C. J. Fagan ..	25761	
				88·91	2·70	8·39	11·09			Partly cream.
			1·0314	88·94	2·74	8·32	11·06	Miss S. E. Wright	25761	
.....	.....	.....	1·0240	82·80	9·40	7·80	17·20	Dr. C. J. Fagan ..	25762	Genuine.
				82·87	10·36	6·77	17·13			
9·88	7·28	17·16	1·0254	82·87	10·39	6·74	17·13	Miss S. E. Wright	25762	
.....	.....	.....	1·0340	87·46	3·39	9·15	12·54	Dr. C. J. Fagan ..	25763	
				87·40	3·52	9·08	12·60			
			1·0324	87·43	3·52	9·05	12·57	Miss S. E. Wright	25763	
.....	.....	.....	1·0330	87·20	3·80	9·00	12·80	Dr. C. J. Fagan ..	25764	
				87·30	3·75	8·95	12·70			
			1·0324	87·35	3·70	8·95	12·65	Miss S. E. Wright	25764	
.....	1·0350	87·05	3·74	9·21	12·95	Dr. C. J. Fagan ..	25765	
				87·25	3·62	9·13	12·75			
			1·0334	87·21	3·61	9·18	12·79	Miss S. E. Wright	25765	

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RESULTS of examining 367 Samples of Milk, Buttermilk and Cream

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Pints.	Cents.		
1906.			<i>District of Manitoba—</i> Concluded.				
May 17	Milk.	25768	H. F. Craig, Winnipeg	1	...		
" 18	"	25769	The City Dairy, Ltd., Winnipeg.	1	...		
" 19	"	25771	C. Van Walleghe, Winnipeg.	1	...		
" 19	"	25772	A. Van Walleghe, Winnipeg.	1	...		
" 21	"	25773	O. Nuytten & Sons, Winnipeg.	1	...		
" 21	"	25774	H. J. Seymour, Winnipeg.	1	...		
" 21	"	25775	Ed. Messiaeu, St. Boniface.	1	...		
			<i>District of Calgary—</i> W. Fletcher, Inspector.				
April 25	Whole Milk.	28633	E. Hooper, Calgary...	1	5	Vendor.	
" 25	Cream.....	28634	" " "	1	15	"	
" 25	Whole Milk...	28635	Jas. Moor " "	1	5	"	
" 25	"	28636	A. Clifford " "	1	5	"	
" 25	Cream.....	28637	M. Poffenroth " "	1	20	"	
" 25	Whole Milk...	28638	W.H. Tregillus " "	1	5	"	
" 25	Cream.....	28639	" " "	1	25	"	
" 25	Whole Milk...	28640	Jas. Brydon " "	1	5	"	
" 25	"	28641	Tom Laycock & Son, Calgary.	1	5	"	
" 27	"	28642	D. F. Killner, Wetaskiwin.	1	5	"	
" 27	Cream.....	28643	" " "	1	25	"	
" 28	Milk.....	28644	G. Breckenridge, Edmonton.	1	5	"	

SESSIONAL PAPER No. 14

by the Public Analysts and in the Inland Revenue Laboratory—*Continued.*

AVERAGE OF ANALYSES OF SAMPLES SHOWING DIFFERENCES OVER 0·25 P.C. BUTTER FAT			RESULTS OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks by District and Chief Analysts.
Butter fat.	Other solids.	Total solids.	Specific gra- vity at 15° C.	Water.	Butter fat.	Other solids.	Total solids.			
p.c.	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.			
			1·0310	86·60	4·75	8·65	13·40	Dr. C. J. Fagan ..	25768	Genuine.
				86·73	4·63	8·64	13·27			
			1·0304	86·70	4·62	8·68	13·30	Miss S. E. Wright	25768	
			1·0270	90·70	2·00	7·30	9·30	Dr. C. J. Fagan ..	25769	Watered.
				89·86	2·94	7·20	10·14			
2·47	7·25	9·72	1·0264	89·84	2·97	7·19	10·16	Miss S. E. Wright	25769	
			1·0330	86·90	4·00	9·10	13·10	Dr. C. J. Fagan ..	25771	Genuine.
				87·06	4·03	8·91	12·94			
			1·0314	87·05	4·00	8·95	12·95	Miss S. E. Wright	25771	
			1·0350	86·94	3·80	9·26	13·06	Dr. C. J. Fagan ..	25772	"
				87·18	3·69	9·13	12·82			
			1·0324	87·21	3·68	9·11	12·79	Miss S. E. Wright	25772	
			1·0310	88·00	3·50	8·50	12·00	Dr. C. J. Fagan ..	25773	"
				88·02	3·41	8·57	11·98			
			1·0294	88·04	3·40	8·56	11·96	Miss S. E. Wright	25773	
										Bottle broken, contents lost.
				88·17	3·20	8·63	11·83			
			1·0294	88·14	3·22	8·64	11·86	Miss S. E. Wright	25774	Und'r average in cream
			1·0320	87·02	3·80	9·18	12·98	Dr. C. J. Fagan ..	25775	Genuine.
				87·12	3·68	9·20	12·88			
			1·0314	87·09	3·68	9·23	12·91	Miss S. E. Wright	25775	
			1·0340	87·00	3·60	9·40	13·00	Dr. C. J. Fagan ..	28633	Genuine.
				87·56	3·68	8·76	12·44			
			1·0347	87·65	3·59	8·76	12·35	J. G. A. Valin....	28633	
			1·0150	72·00	19·78	8·22	28·00	Dr. C. J. Fagan ..	28634	Low in butter fat.
				73·30	20·28	6·42	26·70			
20·03	7·32	27·35		72·68	20·79	6·53	27·32	J. G. A. Valin....	28634	
			1·0340	87·90	2·67	9·43	12·10	Dr. C. J. Fagan...	28635	Partly skimmed.
				88·37	2·87	8·76	11·63			
			1·0334	88·58	2·72	8·70	11·42	J. G. A. Valin....	28635	
			1·0340	87·62	3·29	9·09	12·38	Dr. C. J. Fagan...	28636	Genuine
				87·05	3·37	8·58	12·95			
			1·0324	87·09	3·34	8·57	12·91	J. G. A. Valin....	28636	
				70·20	21·26	8·54	29·80	Dr. C. J. Fagan...	28637	"
				70·82	21·92	7·26	28·18			
21·59	7·90	29·49		70·80	21·95	7·25	29·20	J. G. A. Valin...	28637	
			1·0350	88·00	2·53	9·47	12·00	Dr. C. J. Fagan...	28638	Partly skimmed.
				89·00	2·10	8·90	11·00			
			1·0324	89·08	2·06	8·86	10·92	J. G. A. Valin....	28638	
			1·0090	72·00	22·42	5·58	28·00	Dr. C. J. Fagan...	28639	Low in solids and fat.
				73·20	21·78	5·02	26·80			
22·21	5·31	27·52		72·95	22·01	5·04	27·05	J. G. A. Valin....	28639	
			1·0340	86·50	3·49	10·01	13·50	Dr. C. J. Fagan...	28640	Genuine.
				87·47	3·71	8·82	12·53			
			1·0334	87·67	3·55	8·78	12·33	J. G. A. Valin....	28640	
			1·0310	87·60	3·12	9·28	12·40	Dr. C. J. Fagan...	28641	"
				88·17	3·47	8·36	11·83			
			1·0324	88·29	3·40	8·31	11·71	J. G. A. Valin....	28641	
			1·0330	86·85	3·80	9·35	13·15	Dr. C. J. Fagan...	28642	"
				87·47	3·98	8·55	12·53			
			1·0314	87·46	4·00	8·54	12·54	J. G. A. Valin....	28642	
			1·0180	75·50	16·60	7·90	24·50	Dr. C. J. Fagan...	28643	Poor cream.
				76·86	15·95	7·19	23·14			
16·28	7·51	23·79		76·92	15·96	7·12	23·08	J. G. A. Valin....	28643	
			1·0200	79·70	13·09	6·94	20·30	Dr. C. J. Fagan...	28644	
				81·08	14·50	4·42	18·92			
13·71	5·90	19·61		81·07	14·33	4·60	18·93	J. G. A. Valin....	28644	Partly cream (T.M.)

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RESULTS of examining 367 Samples of Milk, Buttermilk and Cream

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Pints.	Cents.		
1906.			<i>District of Calgary—</i> Concluded.				
April 28	Milk	28645	Neil Ross, Edmonton..	1	5	Vendor	
" 28	Cream	28646	Frank Davis, Strath- cona.	1	25	"	
" 28	Whole Milk. . .	28647	C. E. Morris, Edmon- ton.	1	5	"	
" 30	"	28649	J. E. Haughn, Strath- cona.	1	5	"	
			<i>District of British Col- umbia—E.B. Parkin- son, Inspector.</i>				
April 17	Whole Milk. . .	28069	Victoria Dairy Co., Victoria, B.C.	1	5	Vendors.	
" 17	"	28070	W. H. Hill, Gordon Head Dairy, Vic- toria, B.C.	1	5	Vendor	
" 17	"	28071	C. E. King, Cedar Vale, Victoria, B.C.	1	5	"	
" 18	"	28072	John Irvine, P.O. box 459, Victoria, B.C.	1	5	"	
" 18	"	28073	Geo. McMoran, Mount Tolme Dairy, Vic- toria, B.C.	1	5	"	
" 19	"	28074	J. J. Dickinson, Nana- imo, B.C.	1	5	"	
" 19	"	28075	Geo. Coles, Nanaimo, B.C.	1	5	"	
" 19	"	28076	W. Raines " . . .	1	5	"	
" 19	"	28087	W. H. Bassett " . .	1	5	"	
" 20	"	28080	Davies & Buttery, Vic- toria.	1	5	"	
" 20	"	28081	Chas. Macdonald, Belle View Dairy, Vic- toria, B.C.	1	10	"	
" 23	Cream.	28082	Almond Creamery Co., Vancouver, B.C.	1	20	"	
" 17	Whole Milk. . .	28101	The Richmond Dairy- men's Ass., Van- couver, B.C.	1	5	"	This sample as sold to the public.
" 17	"	28102	" "	1	5	Wm. Baxter, Seveston, B.C.	Samples 28102 to 28106 were taken from the can on its arrival at the Richmond Dairy

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by the Public Analysts and in the Inland Revenue Laboratory—Continued.

AVERAGE OF ANALYSES OF SAMPLES SHOWING DIFFERENCES OVER 0.25 P.C. BUTTER FAT			RESULTS OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks by District and Chief Analysts.
Butter fat.	Other solids.	Total solids.	Specific gra- vity at 15° C.	Water.	Butter fat.	Other solids.	Total solids.			
p.c.	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.			
			1.0330	87.75	2.78	9.47	12.25	Dr. J. C. Fagan...	28645	Partly skimmed.
				88.10	3.31	8.59	11.90			
3.04	9.03	12.07	1.0327	88.39	3.40	8.21	11.61	J. G. A. Valin....	28645	
			1.0160	72.30	19.63	8.03	27.70	Dr. J. C. Fagan...	28646	Low in butter fat.
				73.27	19.70	7.03	26.73			
				72.97	19.80	7.23	27.03	J. G. A. Valin....	28646	
			1.0300	84.70	5.60	9.70	15.30	Dr. C. J. Fagan...	28647	Genuine.
				85.93	5.71	8.36	14.07			
			1.0306	86.03	5.48	8.49	13.97	J. G. A. Valin....	28647	
			1.0310	87.80	3.00	9.20	12.20	Dr. C. J. Fagan...	28649	Low in butter fat.
				88.66	3.25	8.09	11.34			
			1.0317	88.69	3.22	8.09	11.31	J. G. A. Valin....	28649	
			1.0300	87.06	3.31	9.63	12.94	Dr. C. J. Fagan...	28069	Genuine.
				86.99	3.66	9.35	13.01			
3.48	9.49	12.97	1.0333	87.00	3.75	9.25	13.00	Miss D. Davidson.	28069	
			1.0333	86.97	4.58	8.85	13.43	Dr. C. J. Fagan...	28070	"
				86.88	4.22	8.90	13.12			
4.40	8.86	13.26	1.0323	86.91	4.23	8.86	13.09	Miss E. Davidson.	28070	
			1.0270	87.55	3.40	9.05	12.45	Dr. C. J. Fagan ..	28071	"
				87.70	3.73	8.57	12.30			
			1.0302	87.95	3.57	8.48	12.05	Miss E. Davidson.	28071	
			1.0300	88.20	3.33	8.47	11.80	Dr. C. J. Fagan ..	28072	Below average in sol- ids not fat and total
				88.27	3.16	8.57	11.73			solids.
			1.0312	88.28	3.17	8.55	11.72	Miss E. Davidson.	28072	
			1.0300	87.50	3.90	8.60	12.50	Dr. C. J. Fagan ..	28073	Genuine.
				87.02	3.97	9.01	12.98			
			1.0312	87.06	3.99	8.95	12.94	Miss E. Davidson.	28073	
			1.0310	86.40	4.40	9.20	13.60	Dr. C. J. Fagan ..	28074	"
				85.92	4.41	9.67	14.08			
			1.0343	85.99	4.32	9.69	14.01	Miss E. Davidson.	28074	
			1.0310	87.00	3.70	9.23	13.00	Dr. C. J. Fagan ..	28075	"
				86.72	3.81	9.47	13.28			
			1.0357	86.72	3.78	9.49	13.28	Miss S. E. Wright	28075	
			1.0300	87.50	3.50	9.00	12.50	Dr. C. J. Fagan ..	28076	"
				87.59	3.37	9.04	12.41			
			1.0327	87.61	3.32	9.07	12.39	Miss S. E. Wright	28076	
			1.0280	86.20	5.00	8.80	13.80	Dr. C. J. Fagan ..	28077	"
				86.39	4.59	9.02	13.61			
4.79	8.93	13.72	1.0317	86.35	4.59	9.06	13.65	Miss S. E. Wright	28077	
			1.0260	87.10	4.55	8.35	12.90	Dr. C. J. Fagan ..	28080	"
				87.08	4.42	8.50	12.92			
			1.0296	87.06	4.36	8.58	12.94	Miss S. E. Wright	28080	
			1.0310	86.50	3.90	9.60	13.50	Dr. C. J. Fagan ..	28081	"
				86.80	4.40	8.80	13.20			
4.14	9.23	13.37	1.0306	86.76	4.39	8.85	13.24	Miss S. E. Wright	28081	
			1.008	71.00	22.00	7.00	29.00	Dr. C. J. Fagan ..	28082	"
				71.97	21.44	6.59	28.03			
21.74	6.79	28.53		71.94	21.49	6.57	28.06	Miss S. E. Wright	28082	
			1.0300	88.85	2.70	8.45	11.15	Dr. C. J. Fagan ..	28101	Partly skimmed.
				89.07	2.78	8.15	10.93			
			1.0306	89.12	2.68	8.20	10.88	Miss S. E. Wright	28101	
			1.0310	87.30	3.30	9.40	12.70	Dr. C. J. Fagan...	28102	Genuine.
				87.53	3.67	8.80	12.47			
3.48	9.12	12.60	1.0317	87.50	3.67	8.83	12.50	Miss S. E. Wright	28102	

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RESULTS of examining 367 Samples of Milk, Buttermilk and Cream

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	COST.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Pints.	Cents.		
1906.			<i>District of British Columbia</i> -Concluded.				
April 17	Whole Milk..	28103	The Richmond Dairy-men's Ass., Van-couver, B.C.	1	5	W. Bridge, Lulu Is-land, B.C.	
" 17	" ..	28104	" " ..	1	5	J. McCulloch, Lulu Is-land, B.C.	
" 17	" ..	28105	" " ..	1	5	J. McKenny, Lulu Is-land, B.C.	
" 17	" ..	28106	" " ..	1	5	J. Featherston, Lulu Island, B.C.	
" 17	" ..	28110	The Dewdney Dairy Co., Vancouver, B.C.	1	5	Vendors	As sold to the pub-lic.
" 17	" ..	28111	" " ..	1	5	Tupper & Charman, Dewdney, B.C.	Sample taken on its arrival at dairy.
" 17	" ..	28112	" " ..	1	5	A.J. Wilkinson, Dewd-ney, B.C.	" " ..
" 17	" ..	28113	" " ..	1	5	E. and O. Solloway, Mission Junction, B. C.	" " ..
" 17	" ..	28114	" " ..	1	5	The Mission Dairy Farm Co., Dewdney, B.C.	" " ..
" 17	" ..	28115	" " ..	1	5	S. Smith, Dewdney, B.C.	" " ..
" 18	" ..	28116	H. Alexander, 1153 Hastings, East Van-couver, B.C.	1	5	P. Easthope, Fairview, Vancouver. B.C.	
" 18	" ..	28117	W. J. Dickinson, Ep-worth P.O., Van-couver, B.C.	1	5	Vancouver..	
" 18	Buttermilk....	28118	A. L. Manning, 1129 Comox St., Vancou-ver, B.C.	1	5	Richmond Dairy Co., Vancouver, B.C.	
" 20	Cream	28119	The Spa, Vancouver, B.C.	1	20	The Valley Dairy Co., Vancouver, B.C.	
" 19	Whole Milk...	28120	J. E. Murphy, South Westminster, B.C.	1	5	J. E. Murphy, South, Westminster, B.C.	
" 19	" ..	28121	Geo. Satchell, New Westminster.	1	5	Vendors	
" 19	Cream ...	28122	The New Westminster Creamery, New West-miniter, B.C.	1	20	"	
" 19	Buttermilk ..	28123	" " ..	1	5	"	

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by the Public Analysts and in the Inland Revenue Laboratory—*Concluded.*

AVERAGE OF ANALYSES OF SAMPLES SHOWING DIFFERENCES OVER 0.25 P.C. BUTTER FAT			RESULTS OF ANALYSIS.					Name of Analyst.	No. of Sample.	Remarks by District and Chief Analysts.
Butter fat.	Other solids.	Total solids.	Specific gra- vity at 15 C.	Water.	Butter fat.	Other solids.	Total solids.			
p.c.	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.			
.....	.....	.....	1.0300	88.30	2.80	8.91	11.70	Dr. C. J. Fagan..	28103	Partly skimmed.
.....	.....	.....	.....	88.50	3.10	8.40	11.50	.....	.....	.....
2.95	8.65	11.60	1.0317	88.51	3.13	8.36	11.49	Miss S. E. Wright	28103	.....
.....	.....	.....	1.0310	88.20	3.33	8.47	11.80	Dr. C. J. Fagan ..	28104	.....
.....	.....	.....	.....	88.34	3.03	8.64	11.66	.....	.....	.....
3.18	8.55	11.73	1.0317	88.37	3.02	8.61	11.63	Miss S. E. Wright	28104	Under average in cream (T.M.)
.....	.....	.....	1.0310	88.50	2.50	9.00	11.50	Dr. J. C. Fagan ..	28105	Partly skimmed.
.....	.....	.....	.....	88.78	2.90	8.32	11.22	.....	.....	.....
2.70	8.66	11.36	1.0317	88.80	2.90	8.30	11.20	Miss S. E. Wright	28105	.....
.....	.....	.....	1.0280	87.80	3.20	9.00	12.20	Dr. C. J. Fagan ..	28106	Genuine.
.....	.....	.....	.....	88.07	3.84	8.09	11.93	.....	.....	.....
3.52	8.54	12.06	1.0306	88.01	3.86	8.13	11.99	Miss S. E. Wright	28106	.....
.....	.....	.....	1.0310	87.65	2.70	9.65	12.35	Dr. C. J. Fagan ..	28110	Partly skimmed.
.....	.....	.....	.....	87.98	3.12	8.90	12.02	.....	.....	.....
2.87	9.30	12.17	1.0317	88.01	3.05	8.94	11.99	Miss S. E. Wright	28110	.....
.....	.....	.....	1.0270	90.70	2.40	6.90	9.30	Dr. C. J. Fagan ..	28111	Watered.
.....	.....	.....	.....	91.28	2.06	6.66	8.72	.....	.....	.....
2.24	6.75	8.99	1.0256	91.31	2.08	6.61	8.69	Miss S. E. Wright	28111	.....
.....	.....	.....	1.0310	87.30	3.00	9.70	12.70	Dr. C. J. Fagan ..	28112	Low in butter fat.
.....	.....	.....	.....	87.69	3.17	9.14	12.31	.....	.....	.....
.....	.....	.....	1.0327	87.65	3.16	9.19	12.35	Miss S. E. Wright	28112	.....
.....	.....	.....	1.0300	87.50	3.20	9.30	12.50	Dr. C. J. Fagan ..	28113	.....
.....	.....	.....	.....	87.72	3.63	8.65	12.28	.....	.....	.....
3.39	8.99	12.38	1.0296	87.73	3.59	8.68	12.27	Miss S. E. Wright	2811	.....
.....	.....	.....	1.0320	89.40	2.40	8.20	10.60	Dr. C. J. Fagan ..	28113	.....
.....	.....	.....	.....	90.31	1.99	7.70	9.69	.....	.....	.....
2.19	7.95	10.14	1.0296	90.39	1.89	7.72	9.61	Miss S. E. Wright	28114	Watered (T.M.)
.....	.....	.....	1.0310	87.30	3.50	9.30	12.80	Dr. C. J. Fagan ..	28115	Genuine.
.....	.....	.....	.....	87.50	3.37	9.13	12.50	.....	.....	.....
.....	.....	.....	1.0337	87.56	3.42	9.02	12.44	Miss S. E. Wright	28115	.....
.....	.....	.....	1.0280	87.53	3.40	9.07	12.47	Dr. C. J. Fagan..	28116	.....
.....	.....	.....	.....	87.65	3.77	8.58	12.35	.....	.....	.....
3.58	8.83	12.41	1.0306	87.68	3.79	8.53	12.32	Miss S. E. Wright	28116	.....
.....	.....	.....	1.0310	88.53	3.40	9.07	12.47	Dr. C. J. Fagan ..	28117	.....
.....	.....	.....	.....	87.54	3.51	8.95	12.46	.....	.....	.....
.....	.....	.....	1.0327	87.54	3.55	8.91	12.46	Miss S. E. Wright	28117	.....
.....	.....	.....	1.0330	91.00	0.40	8.60	9.00	Dr. C. J. Fagan ..	28118	.....
.....	.....	.....	.....	90.98	0.73	8.29	9.02	.....	.....	.....
0.56	8.45	9.01	.....	91.01	0.74	8.25	8.99	Miss S. E. Wright	28118	.....
.....	.....	.....	.....	73.70	19.20	7.10	26.30	Dr. C. J. Fagan ..	28119	Low in cream.
.....	.....	.....	.....	72.55	20.78	6.67	27.45	.....	.....	.....
19.99	6.88	26.87	.....	72.49	20.81	6.70	27.51	Miss S. E. Wright	28119	.....
.....	.....	.....	1.0310	87.20	2.70	10.10	12.80	Dr. C. J. Fagan ..	28120	.....
.....	.....	.....	.....	87.66	3.49	8.85	12.34	.....	.....	.....
3.05	9.46	12.51	1.0337	87.77	3.41	8.82	12.23	J. G. A. Valin....	28120	Under average in cream (T.M.)
.....	.....	.....	1.0290	87.10	3.50	8.40	12.90	Dr. C. J. Fagan ..	28121	Genuine.
.....	.....	.....	.....	87.51	4.06	8.43	12.49	.....	.....	.....
4.28	8.44	12.72	1.0317	87.45	4.07	8.48	12.55	J. G. A. Valin....	28121	.....
.....	.....	.....	.....	70.20	22.50	7.30	29.80	Dr. C. J. Fagan ..	28122	.....
.....	.....	.....	.....	70.43	23.16	6.41	29.57	.....	.....	.....
22.83	6.85	29.68	.....	70.49	23.23	6.28	29.51	J. G. A. Valin... .	28122	.....
.....	.....	.....	1.0330	91.50	None	8.50	8.50	Dr. C. J. Fagan ..	28123	.....
.....	.....	.....	.....	92.04	0.11	7.85	7.96	.....	.....	.....
.....	.....	.....	1.0266	92.05	0.05	7.90	7.95	J. G. A. Valin....	28123	.....

APPENDIX Q.

BULLETIN No. 122.—HONEY, 1906.

OTTAWA, July 9, 1906.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,— I beg to transmit herewith a tabulated statement of the results of examining 54 samples of honey, which were collected during the months of March and April last. The methods of examination followed were the same as described in Bulletin No. 90, the remarks in which as regards standards and limits are again applicable. There were 54 samples collected in all, and the following summary gives the number obtained in each inspection district, and the opinions arrived at concerning their character.—

Inspection District.	Genuine.	Adulteration Declared.	Adulterated.	Total.
Nova Scotia.....	4	0	0	4
Prince Edward Island.....	2	0	0	2
New Brunswick.....	4	0	0	4
Quebec.....	3	1	1	5
St. Hyacinthe.....	3	0	1	4
Montreal.....	6	0	0	6
Ottawa.....	5	0	0	5
Kingston.....	3	0	1	4
Toronto.....	5	0	0	5
London.....	4	0	1	5
Manitoba.....	1	0	3	4
Calgary.....	1	0	1	2
British Columbia.....	3	0	1	4
	44	1	9	54

It will be seen that 44 out of 54 samples were found to be genuine, a proportion amounting to 81·5, and which is nearly the same as found in the collection of 1903.

I have the honour to be, sir,

Your obedient servant,

THOMAS MACFARLANE,
Chief Analyst.

DESCRIPTION of 54 Samples of Honey analysed

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.
1906.			<i>District of Nova Scotia— R. J. Waugh, Inspector.</i>			
Mar. 28	Honey.	27401	Cornwallis Trading Co., Canning, N. S.	3 jars, 75c.	E. A. Lewis, Per- eau, N. S.	Labelled pure honey. Put up by E. A. Lewis, Linden Farm.
" 28	"	27402	N. W. Eaton & Co., Canning, N. S.	3 " 75c.	Chas. Ells, Canard, N. S.	No label
" 29	"	27403	T. L. Harvey, Wolfville, N. S.	2 " 50c.	H. Johnston, Wolf- ville, N. S.	"
" 30	"	27406	Larder, Hubley & Co., Halifax, N. S.	2 lbs. 35c.	Unknown. Sup- plied by Fear- man & Co., Ham- ilton, Ont.	"
			<i>District of Prince Ed- ward Island—T. Moore, Inspector.</i>			
Mar. 29	Honey.	28263	C. D. Rankin, Charlotte- town.	3 bots. 75c.	Not known.	
" 31	"	28265	J. Ching, Summerside.	3 " 60c.	Fawcett Honey Co., Ltd., Mem- ramcook, N. B.	
			<i>District of New Bruns- wick—J. C. Ferguson, Inspector.</i>			
Mar. 29	Honey	24143	National Drug & Chemi- cal Co., Ltd., 29-33 Mill street, St. John, N. B., Branch.	3 " 60c.	Willard & Co., Toronto, Ont.	Labelled pure white clover honey. The Ca- nadian Drug Co., Ltd., wholesale Druggists, St. John, N. B.
" 30	"	24144	W.A. Simonds, 89 Union street, St. John, N.B.	3 jars, 90c.	Fawcett Honey Co., Memram- cook, Westmore- land, Co., N.B.	Labelled. War- ranted pure honey.
" 31	"	24148	Vanwart Bros., Grocers, Cor. Duke & Charlotte streets, St. John, N.B.	3 " \$1.05	Wm. W. Cassidy, Clover Hill, N.B.	Labelled 'extract- ed honey.' War- ranted pure from clover.
April 4	"	24149	W. Fenwick, city mar- ket, wholesale stall, St. John, N. B.	3 " 65c.	Maple Leaf Apiary Colpitts Bros., Pleasant Vale, Albert Co., N.B.	Labelled 'honey.' Maple Leaf Apiary, Colpitts Bros. Pleasant Vale, Albert Co., N. B.
			<i>District of Quebec—C. E. Roy, Inspector.</i>			
Mar. 23	Honey	29076	Hamel & Bedard, Que..	3 jars, 60c.	Pierre Hamel, An- cienne Lorette, Apiculteur.	
" 24	"	29078	Baller Bros. & Sons, Que.	3 lbs., \$1.00	Jacques Verret, Charlesbourg, Que., Apiculteur.	
" 28	"	29080	S. Martel, Que.....	3 " 60c.	F. E. Gauvreau et Frère.	Marked com- pound.

SESSIONAL PAPER No. 14

in the Inland Revenue Laboratory, Ottawa, 1906.

Analyst's Names	Direct Reading of Saccharimeter.	Water Loss on drying at 70° C.	Physical Characters.	Reducing sugar by Fehling solution.	Reducing sugar after Inversion.	Cane Sugar.	Test for Dextrine.	No. of Sample.	Remarks by the Chief Analyst.
		p. c.		p. c.	p. c.	p. c.			
Miss E. Davidson	—9·4	21·80	Coloured light yellow; partly crystallised					27401	Genuine.
"	—8·4	20·40	Yellow; crystallised almost throughout.					27402	
"	—8·7	22·00	Yellow; clear...					27403	"
"	—7·5	19·40	Colourless; crystallised throughout.					27406	"
Miss E. Davidson	—8·2	21·60	Yellow; clear...					28263	Genuine.
"	—13·5	19·40	" "					28265	"
A. Lemoine.	—15·0	18·65	Light yellow; strained.					24143	Genuine.
"	—14·8	18·85	Brownish; strained.					24144	"
"	—21·0	20·85	Light brown; strained.					24148	"
Miss E. Davidson	—15·1	26·40 25·80	Brown; slightly crystallised, smells of buckwheat.					24149	"
A. Lemoine.....	—3·0	19·10	Light yellow; strained.					29076	Genuine.
"	+3·0	18·25	Pale yellow; strained.	56·48	80·69	24·21	None...	29078	Adulterated with cane sugar.
"	—5·5	20·75	Pale yellow; partly crystallised.	67·95	74·47	6·52		29080	Adulteration declared.

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DESCRIPTION of 54 Samples of Honey analysed

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.
1906.			<i>District of Quebec—C. E. Roy, Inspector—</i> Concluded.			
Mar. 29	Honey.....	29081	O. Boivin, Que.....	3 jars, 60c.	N. Rioux et Cie, Que.	.....
" 30	"	29083	Pouliot et Delage, Que.	3 jars, 45c.	Dr. Ed. Morin et Cie.	.....
			<i>District of St. Hyacinthe—J. C. Rouleau, Inspector.</i>			
Mar. 26	Honey	24695	G. Dupuis, St. Jean, Que.	3 glass, 36c.	J. Fortin, Napier-ville, Que.	.....
" 27	"	24696	Bray Bros., Sherbrooke, Que.	3 jars, 90c.	Not known....	.....
April 4	Canadian Honey.	24697	G. A. Poirier, Que.....	3 " 30c.	Jos. Lamoureux, Montreal.	Marked and sold Canadian honey and compound, the latter word in small letters.
" 5	Upton's Pure Honey.	24698	Beaudry et Frères, Weedon Station.	3 " 54c.	Upton. ....	.....
			<i>District of Montreal—J. J. Costigan, Inspector.</i>			
Mar. 29	Honey.. ...	25083	G. Lafortune, Bonsecour Market, Montreal	4-lb. tin, 40c.	Not known... ..	No label. Sold as pure.
" 29	"	25084	N. Ethier, Bonsecour Market, Montreal.	5-lb. tin, 50c.	Joseph Bourgela, Montreal.	" "
" 29	" (white)	25085	Gunn & Langlois et Cie, St. Paul st., Montreal, wholesale merchants.	3 lbs. 24c.	Not known.....	Sold as pure.
" 29	" (brown)	25086	" " " "	3 " 24c.	"	"
" 29	"	25087	Thomas Lamb, 761 Notre Dame, east, Montreal.	3 jars, 39c.	Howe & McIntyre, Montreal.	"
" 29	"	25088	A. E. Savageau, 667 St. Catherine, east, Montreal.	3 lbs. 30c.	Gunn, Langlois et Cie.	From bulk. Sold as pure.
			<i>District of Ottawa—A. E. Sanderson, Inspector.</i>			
Mar. 27	Honey.....	29217	Kavanagh Bros., Sparks st., Ottawa.	3 jars, 60c.	Castle Co., Ltd., Ottawa.	No label; would not say as to purity.
" 28	"	29220	Mathews Co., Ltd., Bank st., Ottawa.	3 " 60c.	Allen & Kendall, Ottawa.	Labelled pure honey.
" 28	"	29213	Wm. McAllister, Albert st., west end, Ottawa.	3 " 30c.	Not known.....	Labelled pure honey.
" 30	"	29221	W. G. Thomson, Bank st., Ottawa.	3 bots, 75c.	George Kemp, Navan, Ont.	Labelled from the Apiary of George Kemp, Navan, Ont.
" 30	"	29222	Geo. H. Hopper, 211 Bank st., Ottawa.	3 " 45c.	F. J. Castle Co., Ltd., Ottawa.	No label... ..

SESSIONAL PAPER No. 14

in the Inland Revenue Laboratory, Ottawa, 1906—*Continued.*

Analyst's Names.	Direct Reading of Saccharimeter.	Water Loss on drying at 70° C.	Physical Characters.	Reducing sugar by Fehling solution.	Reducing sugar after Inversion.	Cane Sugar.	Test for Dextrine.	No. of Sample.	Remarks by the Chief Analyst.
		p.c.		p.c.	p.c.	p.c.			
A. Lemoine.....	—2·5	19·50	Light yellow ; clear.	.....	.....	.....	None ...	29081	Genuine.
"	+3·6	20·80	" " ..	62·90	71·35	8·45	.....	29083	"
Miss E. Davidson	—5·0	21·60	Dark brown ; crystallised almost throughout.	.....	.....	.....	.....	24695	Genuine.
"	—14·8	23·00	Colourless ; crystallised throughout.	.....	.....	.....	.....	24696	"
A. Lemoine....	+93·8	25·85	Brown coloured ; clear.	47·54	55·41	7·87	None ...	24697	Adulterated with glucose syrup.
Miss E. Davidson	—13·0	19·80 20·20	Dark brown ; rather thick, strong taste.	.....	.....	.....	.....	24698	Genuine.
A. Lemoine.....	—12·0	23·75	Brown ; partly crystallised.	.....	.....	.....	.....	25083	Genuine.
"	—9·0	18·65	Colourless, crystalline mass.	.....	.....	.....	.....	25084	"
"	—13·0	20·15	Light yellow ; strained.	.....	.....	.....	.....	25085	"
"	—10·0	20·00	Dark yellow ; almost wholly crystallised.	.....	.....	.....	.....	25086	"
Miss E. Davidson	—11·0	20·20	Yellow ; crystallised almost throughout.	.....	.....	.....	.....	25087	"
"	—4·0	23·80	Brown ; partly crystallized.	.....	.....	.....	.....	25088	"
A. Lemoine.....	—10·5	19·20	Colourless ; clear	.....	.....	.....	.....	29217	Genuine.
"	—10·0	18·75	Yellowish ; clear	.....	.....	.....	.....	29220	"
Miss E. Davidson	—10·2	22·40 22·60	Dark yellow ; slightly crystallised.	.....	.....	.....	.....	29213	"
"	—7·0	21·80 21·60	Yellow ; slightly crystallised.	29221	"
"	6·7	21·20 21·40	Yellow ; slightly crystallised.	29222	"

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DESCRIPTION of 54 Samples of Honey analysed

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.
1906.			<i>District of Kingston— J. Hogan, Inspector.</i>			
Mar. 21	Honey.....	28576	J. Nesbitt, Johnston st., 1½ pts., Kingston.	38c.	Bartels, Morven, Ont.	.....
" 21	"	28578	A. Glover, Earl st., 3 lbs., Kingston.	45c.	Not known.. ..	.....
" 22	"	28580	A. Bridge, Division st., 3 pts., Kingston.	75c.	A. Bridge, Kingston.	.....
" 22	"	28583	J. Redden, Princess st., 1½ lbs., Kingston.	50c.	T. J. Spratt, Wolfe Island.	.....
			<i>District of Toronto—W. H. McPhie, Inspector.</i>			
Mar. 23	Honey.	29106	Battram & Co., King st. west, Hamilton, Ont.	30c.	Bottled by vendor.	Only had two jars.
" 30	"	29114	F. Millman, Dundas st., Woodstock, Ont.	60c.	J. B. Hall, Woodstock, Ont.	.....
April 2	"	29118	White & Co., Toronto, Ont	30c.	Jno. Fee, Front st., Toronto, Ont.	The label has no manufacturer's name on it.
" 2	"	29120	Medland Bros., Yonge st., Toronto, Ont.	45c.	Geo. Laing, Milton, Ont.	.....
" 3	"	29121	J. O. Carpenter, Market st., Hamilton, Ont.	39c.	Samuel Grimsby..	.....
			<i>District of London—T. Kidd, Inspector.</i>			
Mar. 23	Honey(bulk)	22460	A. G. Ault, grocer, Seaforth, Ont.	20c.	William Hartley, Seaforth, Ont.	No producers label.
" 24	"	22464	A. D. Beaton, grocer, Clinton, Ont.	25c.	Samuel Barr, Clinton, Ont.	" ..
" 27	"	22465	E. O. Flaherty, grocer, Stratford, Ont.	25c.	Balford & Co., wholesale, Hamilton, Ont.	" ..
" 28	"	22468	William Metcalf, grocer, Berlin, Ont.	20c.	White & Co, whole-sale, Toronto, Ont.	" ..
" 29	"	22473	J. D. Elliott, grocer, Tottenham, Ont.	25c.	George Hollingshead, Tottingham, Ont.	.....
			<i>District of Manitoba— W. M. Conklin, Inspector.</i>			
April 4	Honey.....	25741	Campbell Bros. & Wilson, Winnipeg, Man.	2 lbs..	Vendors.	Sold as a compound.
" 4	"	25743	The A. Macdonald Co., Winnipeg, Man.	50c.	The McPherson Fruit Co., Winnipeg, Man.	Marked pure white clover honey extracted.
" 5	"	25744	R. Mackenzie & Co., Winnipeg, Man.	50c.	Dundas & Flavell Bros. Lindsay, Ont	Labelled 'extracted honey.'
" 6	"	25748	Bright & Johnston, Winnipeg, Man.	45c.	Vendors	Put up by vendors.

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in the Inland Revenue Laboratory, Ottawa, 1906—*Continued.*

Analyst's Names.	Direct Reading of Saccharimeter.	Water Loss on drying at 70° C.	Physical Characters.	Reducing Sugar by Fehling solution.	Reducing Sugar after Inversion.	Cane Sugar.	Test for Dextrine.	No. of Sample.	Remarks by the Chief Analyst.
		p.c.		p.c.	p.c.	p.c.			
A. Lemoine.....	—13·0	20·85	White crystal-line mass.					28576	Genuine.
"	— 8·0	21·45	Light yellow; comb separated					28578	"
"	—11·5	22·50	Light yellow; partly crystallised.					28580	"
"	+ 4·5	19·5	Light brown with some honey comb.	52·0	79·52	27·53	None.	28583	Adulterated with cane sugar.
A. Lemoine.....	—14·5	22·60	Yellow; partly crystallised.					29106	Genuine.
"	—13·5	21·75	Yellow; clear ..					29114	"
"	—14·0	21·85	White; partly crystallised.					29118	"
"	—14·5	20·50	White; opaque.					29120	"
"	—16·0	20·15	Yellow; mostly crystals.					29121	"
A. Lemoine.....	—14·3	22·00	Whitish; mostly crystals.					22460	Genuine.
"	—15·0	23·75	Light yellow; partly crystallised.					22464	"
"	—16·0	27·75	Whitish; partly crystallised.					22465	"
"	—13·0	25·85	" "					22468	"
Miss E. Davidson.	+ 4·5	23·00	Light yellow; partly crystallised.	66·11 66·20	91·38 90·40	24·01 22·99	None...	22473	Adulterated with cane sugar.
Miss E. Davidson.	+26·5	18·20 18·40	Yellow, thick and clear.	48·50 48·61	89·84 91·20	39·27 40·46	None...	25741	Not labelled 'compound,' therefore adulterated.
"	+ 9·1	25·80 26·00	Yellow and clear.	58·42 58·24	87·48 87·28	27·60 27·59	None...	25743	" "
"	—18·5	20·20	Light yellow; crystallized almost throughout.					25744	Genuine.
"	— 0·5	20·80 20·60	Yellow; rather thick.	69·51 69·60	89·84 90·02	19·31 19·40	Trace.	25748	Adulterated.

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DESCRIPTION of 54 Samples of Honey analysed

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.
1906.			<i>District of Calgary—W. Fletcher, Inspector.</i>			
Mar. 30	Pure Honey.	28627	J. C. Winn, retail, Calgary.	3 bots., 75c.	Campbell Bros. & Wilson, Winnipeg, Man.	Labelled 'royal shield honey and sugar syrup,' but not marked 'compound.'
" 30	Honey.....	28631	Codville, Smith Co., wholesale, Calgary.	3 " 50c.	T. H. Richardson, Oakwood, Ont.	
			<i>District of British Columbia—E. B. Parkinson, Inspector.</i>			
Mar. 31	Honey.....	28059	S. T. Wallace, Vancouver, B.C.	3 jars, 75c.	E. S. Browne, Ladner, B.C.	Pure extracted honey.
" 31	"	28061	The Direct Supply Co., Vancouver, B.C.	3 " 75c.	John Stade, Chilliwack, B.C.	Warranted pure extracted honey.
" 31	"	28064	Kelly, Douglas & Co., Vancouver, B.C.	3 " 60c.	H. L. Johnston, Chilliwack, B.C.	" " ..
April 2	"		A. Macdonald & Co., Vancouver, B.C.	½ gall., 65c.	Ramsay Bros. & Co., Vancouver, B.C.	White clover extracted honey.
		99087				

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in the Inland Revenue Laboratory, Ottawa, 1906—*Concluded.*

Analyst's Names.	Direct Reading of Saccharimeter.	Water Loss on drying at 70° C.	Physical Characters.	Reducing sugar by Fehling solution.	Reducing sugar after Inversion.	Cane Sugar.	Test of Dextrine.	No. of Sample.	Remarks by the Chief Analyst.
		p.c.		p.c.	p.c.	p.c.			
Miss E. Davidson.	+26·0	18·20	Yellow ; clear ; very thick.	49·48 49·76	92·56 92·72	40·92 40·81	None.	28627	Adulterated with cane sugar.
"	..... -16·6	21·20	White ; crystallised throughout.	.....	.....	.....	.....	28631	Genuine.
Miss E. Davidson.	- 8·2	17·40 17·20	Pale yellow ; thick ; slightly crystallised.	.....	.....	.....	.....	28059	Genuine.
"	..... -12·5	21·60 21·80	Dark brown ; not very clear.	.....	.....	.....	.....	28061	"
A. Lemoine.	..... -11·0	19·35	Light yellow ; partly crystallised.	.....	.....	.....	.....	28064	"
"	..... +34·0	15·25	Brownish ; clear.	63·48	71·74	8·26	Present.	28066	Adulterated with glucose syrup.

APPENDIX R.

BULLETIN No. 123.—CANNED MEATS.

OTTAWA, July 25, 1906.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—In accordance with your instructions of 11th and 12th June last, a collection of canned meats was made as they are offered for sale in the Dominion. These included not only goods packed in Canada, but also about an equal number of samples as put up by manufacturers in the United States. The latter were, of course, obtained from dealers in Canada, but, as regards Canadian products, they were taken not only from retailers and wholesale merchants, but also at the factories. The samples were obtained in the course of June and July, the number from the various inspection districts being as follows:—

Nova Scotia.....	32
Prince Edward Island.....	16
New Brunswick.....	27
Quebec.....	33
St. Hyacinthe.....	32
Montreal.....	32
Ottawa.....	32
Kingston.....	24
Toronto.....	32
London.....	20
Manitoba.....	10
British Columbia.....	32
Total.....	322

With reference to their examination in this laboratory it may be stated that the manner of testing them was the same as referred to in Bulletin No. 85. On opening the tins it was noted as to whether the meats appeared to be fresh and destitute of any disagreeable odour, and they were tested as to whether any preservatives had been used in packing them. Only four samples out of the total collection were found to give evidence of decomposition, a proportion amounting only to 1·4 per cent. The preservatives sought for were salicylic, benzoic, sulphurous and boric acids, but only the last named was detected in a comparatively small number of samples, in quantity not exceeding the limit fixed by the English parliamentary commission of 0·5 per cent, and probably added in the shape of borax. There were 51 such samples among the 322 collected or 15·8 per cent. This proportion is less than in the collection of 1903 where the proportion of samples containing borax amounted to 21·2 per cent.

Full details regarding the nature and origin of the samples examined are given in the tabulated statement appended to this report. Since its completion, however, my attention has been called to the number for June, 1906, of the Monthly Bulletin of the

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State Board of Health of Massachusetts in which there is a report on canned meats with the following statement :—

“In general it may be said that the results are favourable to the manufacturers ‘both in the west and in the east; but certain preparations, the manufacture of which ‘involves comminution or grinding, are very largely fraudulent in character, in that they ‘are not what they purport to be. These preparations include the various potted ‘tongues, chicken, beef and ham, and devilled chicken, turkey, ham and tongue.” Some of these are said to contain corn meal, for which no search was made in the samples described in this report. Since its preparation is desired with all possible dispatch, I do not propose to delay it any longer, but intend to refer to the subject of such adulterated potted goods in a future report.

I have the honour to be, sir,

Your obedient servant,

THOMAS MACFARLANE,
Chief Analyst.

INSPECTION OF CANNED MEAT SAMPLES IN THE INLAND REVENUE LABORATORY.

District of Nova Scotia—R. J. Wauah, Inspector.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.	Analyst's Name.	Preservatives Present.	Condition of Sample.
1906.									
June 19	Ready Lunch Turkey Loaf.	27129	Billman & Chisholm, Halifax, N.S.	3 cans, 30c..	W. Clark, Montreal, Que.	The vendors are wholesale dealers.	A. Valin...	Boric acid..	Good.
"	19 Chicken, Ham and Tongue.	27130	" " " "	3 " 30c..	" " " "	"	"	"	"
"	19 Lunch Tongue.	27131	R.B. Sifton, Halifax, N.S.	3 " 56c..	Libby, McNeill & Libby, Chicago.	"	"	None.....	"
"	19 Compressed Cooked Corn Beef.	27132	" " " "	3 " 34c..	Laing Packing Co., Montreal.	"	"	Boric acid..	"
"	19 " " "	27133	Baile Bros., Halifax, N.S.	3 " 45c..	Wm. Davies, Toronto.	"	"	"	"
"	19 Cooked Corned Beef.	27134	" " " "	3 " 45c..	Libby, McNeill & Libby, Chicago.	"	"	None.....	"
"	19 Potted Chicken ...	27135	J. F. Crowe & Co., Halifax, N.S.	3 " 30c..	Wm. Clark, Montreal.	"	"	Boric acid..	"
"	19 Veal Loaf.....	27136	" " " "	3 " 45c..	Armour Packing Co., Chicago.	Sold as 'Veribest' brand....	"	None.....	"
"	20 Corned Beef.	27138	John Tobin & Co., Halifax, N.S.	3 " 45c..	Wm. Clark, Montreal.	The vendor is a wholesale dealer.	"	"	"
"	20 Cooked Beef.....	27139	" " " "	3 " 60c..	Libby, McNeill & Libby, Chicago.	"	"	"	"
"	20 Fresh Preserved Beef	27140	J. A. Leaman & Co., Halifax, N.S.	3 " 40c..	Vendors	Sold as 'Seal' brand.....	"	"	"
"	20 Pork Sausages.	27141	" " " "	3 " 45c..	" " " "	'Cock of the Walk' brand ..	"	"	"
"	20 Cooked Compressed Corned Beef.	27142	Dillon Bros., Halifax, N.S.	3 " 45c.	Armour Packing Co., Kansas City, U.S.	'Helmet Brand.' The vendors are general dealers.	"	"	"
"	20 Ham Loaf.....	27143	" " " "	3 " 30c..	Libby, McNeill & Libby, Chicago.	"	"	"	"
"	20 Potted Chicken.....	27144	" " " "	3 " 45c..	" " " "	"	"	"	"
"	20 Vienna Sausage.....	27145	W. C. Anderson, Halifax, N.S.	3 " 45c..	Park, Blackwell & Co., Toronto.	Sold as Canadian Vienna sausage.	"	Boric acid..	"

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June 20	Corned Beef.....	27146	W. C. Anderson, Halifax, N.S.	3 cans,	54c..	Wm. Davis, Toronto, Ont.	Libby, McNeill & Libby, Chicago.	Labelled 'Genuine Canadian produce.'	A. Valin	None	Good.
"	20 Potted Tongue	27147	" " "	3 "	30c..	" "	" "	Labelled 'the best.'	"	"	"
"	20 Veal Loaf	27149	W. E. Crowe & Co., Halifax, N.S.	3 "	45c..	" "	" "	Labelled 'the best.'	"	"	"
"	20 Devilled Tongue	27150	C. E. Choat & Co., Halifax, N.S.	3 "	45c..	Laing Packing Co., Montreal.	" "	Sold as anchor brand.	"	Boric acid	"
"	20 Fresh Cooked Beef ..	27151	" " "	3 "	45c..	F. W. Linton.....	" "	'Halifax brand.'	"	None.	"
"	20 Corned Beef	27152	" " "	3 "	45c..	Park, Blackwell & Co., Toronto.	" "	Red seal.	"	"	"
"	20 "	27154	A. L. Doyle & Co., Halifax, N.S.	3 "	42c..	Wm. Clark, Montreal.	" "	"	"	"	"
"	20 Roast Beef ..	27155	G. A. Cook & Co., Halifax, N.S.	3 "	40c..	Armour Packing Co., Kansas City, U.S.	" "	Marked 'Inspected in accordance with Act of Congress, March 3, 1891.'	"	"	"
"	20 Devilled Ham	27156	" " "	3 "	15c..	" "	" "	"	"	"	"
"	25 Potted Tongue ..	27157	Black & Co., Truro, N.S.	3 "	13c	Libby, McNeill & Libby, Chicago, U.S.	" "	The vendors are wholesale dealers.	"	"	"
"	25 Roast Beef	27158	" " "	3 "	37c..	Armour & Co., Chicago	" "	'Veribest.'	"	"	"
"	25 Corned Beef	27160	Ryan Bros., Truro, N.S.	3 "	45c..	The Hammond Co., Chicago.	" "	Sold as 'coin special.'	"	"	"
"	25 "	27163	W. P. Carter, Truro, N.S.	3 "	42c..	Wm. Clark, Montreal.	" "	"	"	"	"
"	25 Potted Ham.	27165	E. E. O'Brien, Truro, N.S.	3 "	30c..	" "	" "	"	"	Boric acid	"
"	25 Potted Tongue	27167	R. W. Byers, Truro, N.S.	3 "	30c..	G. H. Hammond, Chi- cago, U.S.	" "	Sold as coin brand.	"	None	"
"	25 "	27168	H. W. Ryan, Truro, N.S.	3 "	25c..	Libby, McNeill & Libby, Chicago, U.S.	" "	Labelled Libby's potted tongue.	"	"	"

INSPECTION OF CANNED MEAT SAMPLES IN THE INLAND REVENUE LABORATORY—Continued.

District of Prince Edward Island—T. Moore, Inspector.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.	Analyst's Name.	Preservatives Present.	Condition of Sample.
1906.									
June 16	Lunch Tongue	28295	Sanderson & Co., Charlottetown.	3 tins, 90c	Sincow Canning Co., Sincow, Ont.	This delicious article of food will be found to be a great acquisition to the breakfast, lunch, &c.; warranted to be unsurpassed in quality and richness of flavour.	A. Valin . . .	None.	Good.
"	16 Beef Loaf	28296	"	3 " 45c	Libby, McNeill & Libby, Chicago, U.S.	The best packed in Chicago.	"	"	"
"	16 Corned Beef	28297	"	3 " 60c	The G. H. Hammond Co., Chicago, U.S.	The contents of this package has been inspected according to the Act of Congress of March 1, 1891.	"	"	"
"	16 Prepared Chicken	28299	H. Gates & Co., Charlottetown.	3 " 75c	Maritime Packing Co., Bedeque, P.E.I.	Unexcelled for richness of flavour. The contents of this can is admirably adapted for making chicken salads, &c.	"	"	"
"	16 Corned Beef	28298	"	3 " 45c	W. Clark, Montreal . . .	Clark's cooked corned beef.	"	"	"
"	18 Boned Chicken	28301	Jenkins & Son, Charlottetown.	3 " 90c	Aylmer Canning Co., Aylmer, Ont.	The contents of this can are equal to more than double the quantity of uncooked meat. Unexcelled for richness of flavour.	"	"	"
"	18 Vienna Sausage	28303	Stewart & Son, Charlottetown.	3 " 45c	Libby, McNeill & Libby, Chicago, U.S.	The best extra fine Vienna sausage, German style.	"	"	"
"	19 Chipped Dried Beef	28306	Brace & McKay, Summerside.	3 " 60c	Armour Canning Co., Chicago.	Shield brand. The meat in this brand has been inspected in accordance with the Act of Congress March 3, 1891.	"	"	"
"	19 Corned Beef	28308	J. Ching, Summerside.	3 " 60c	Maritime Packing Co., Bedeque, P.E.I.	Red Coat brand. The contents of this can is equal to double the quantity of uncooked meat.	"	"	"

"	19 Veal Loaf.....	28309	R. T. Holman, Summerside.	"	45c.	G. H. Hammond Co., Chicago.	Coin Special. The contents of this package is of superior quality, having been carefully selected under our own supervision and inspected according to law enacted by Congress March 3, 1891, regulating inspection of meats.	"	....	"	.....	Meat badly decomposed
June	19 Corned Beef.....	28310	R. T. Holman, Summerside.	"	75c.	The Dominion Packing Co., Charlottetown, P.E.I.	Warranted to keep in any climate.	"	....	"	.....	Good.
"	19 Vienna Sausage.....	28311	R. T. Holman, Summerside.	"	45c.	G. H. Hammond Co., Chicago.	Coin Special. The meat in this can is of superior quality; having been carefully selected under our personal supervision and inspected according to law, &c.	"	....	Boric acid...	.....	"
"	20 Corned Beef.....	28314	J. H. Myrick, Alberton.	"	45c.	Laing Packing and Provision Co., Montreal.	This meat is selected, preserved and packed with due reference to its keeping in all climates.	"	....	"	.....	"
"	20 Potted Ham.....	28315	T. White, Charlottetown.	"	30c.	The Dominion Packing Co., Charlottetown, P.E.I.	Delicious and appetizing for luncheons, suppers or excursions. Excellent for sandwiches; ready for use. The best ham loaf. The meat contents of this package is inspected under Act. March 3, '91.	"	....	"	.....	"
"	20 Ham Loaf.....	28318	M. Duffy, Charlottetown.	"	45c.	Libby, McNeill & Libby, Chicago.	The best ham loaf. The meat contents of this package is inspected under Act. March 3, '91.	"	....	None	.....	"
"	20 Pigs Feet.....	28319	Sidney Grey, Charlottetown.	"	45c.	Libby, McNeill & Libby, Chicago.	Inspected under Act. March 3, '91.	"	....	"	.....	"

INSPECTION OF CANNED MEAT SAMPLES IN THE INLAND REVENUE LABORATORY—Continued.

District of New Brunswick—J. C. Ferguson, Inspector.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.	Analyst's Name.	Preservatives Present.	Condition of Sample.
1906.									
June 18	Cooked Corned Beef.	24213	Baird & Peters, Ward St., St. John, N.B.	3 tins, 45c.	W. Clark, Montreal, Que.	Labelled corned beef.	A. Vallin	None	Good.
" 19	Veal Leaf.	24214	Bowman & Cole, 28-30 Water St., St. John, N.B.	3 " 50c.	Libby, McNeill & Libby Chicago, U.S.	Labelled Libby's veal loaf.	"	"	"
" 20	Canned Beef.	24216	W. F. Hatheway Co., Ltd., 17-18 South Market Wharf, St. John, N.B.	3 " 85c.	The Laing Packing and Provision Co., Ltd., Montreal, Que.	Labelled Laing's compressed corned beef.	"	"	"
" 20	Corned Beef.	24217	W. A. Simonds, 89 Union St., St. John, N.B.	3 cans, 45c.	G. Hammond Co., Chicago, Ill., U.S.	Labelled Coin Special compressed cooked corned beef.	"	"	"
" 22	Potted Ham.	24219	E. E. MacMichael, 40 Dock St., St. John, N.B.	3 " 30c.	Armour & Co., Chicago, U.S.	Labelled veribest potted ham.	A. Lemoine,	"	"
" 23	Lamb's Tongue.	24220	Puddington & Meritt, 55 Charlotte St., St. John, N.B.	3 " \$1.05.	The Wm. Davies Co., Ltd., Toronto, Ont.	Labelled genuine Canadian table delicacies.	"	"	"
" 26	Potted Ham.	24222	John Jackson, 15-16 South Market whf., St. John, N.B.	3 " 30c.	" " "	Labelled genuine Canadian produce.	"	"	"
" 26	Boneless Chicken.	24223	W. E. Grass, 16 St. John St., St. John, N.B.	3 " 45c.	G. H. Hammond Co., U.S.A.	Labelled coin special; appetizing and satisfying. Quality guaranteed	"	"	"
" 27	Roast Beef.	24225	The Two Barkers, Ltd., 100 Princess St., St. John, N.B.	3 " 75c.	The Dominion Packing Co., Ltd., Charlotte town, P.E.I.	Labelled prime roast beef. Vendors statement; old stock and would not guarantee goods.	"	"	"
" 28	Lunch Tongue.	24226	McPherson Bros., 181 Union St., St. John, N.B.	3 " \$1.05.	Armour & Co., Chicago.	Labelled veribest lunch tongue. Inspected in accordance with Act of Congress, Mar. 3, 1891.	"	"	"

"	28	Devilled Ham.....	24228	The F. B. Dunn 3 tins, 25c.. Packing Co., Fair- ville, St. John Co., N.B., packers.	Vendors.....	Labelled choice devilled ham. 'Canada's Best.'	"	"	"	"
"	28	Lunch Tongue.	24229	" " 3 cans, 75c..	"	Labelled choice lunch tongue. 'Canada's Best.'	"	"	"	Meat smells fresh but is covered with a scum (Good.
"	28	Sausages	24230	" " 3 " 30c..	"	Labelled choice sausage. 'Canada's Best.'	"	"	"	"
"	28	Sliced Bacon.....	24231	" " 3 " 75c..	"	Labelled choice sliced bacon. 'Canada's Best.'	"	"	"	"
July	11	Cooked Corned Beef.	24236	The Sussex Packing 3 " 45c.. Co., Ltd., Sussex, N.B.	"	Labelled compressed cooked corned beef; Sussex brand.	"	"	"	"
"	11	Pigs Feet	24237	" " 3 " 45c..	"	Labelled Brand B.'	"	"	"	"
"	11	Ham, Game and Tongue.	24238	The Sussex Packing 3 cans, 45c.. Co., Ltd., Sussex, N.B.	Vendors	Labelled Sussex brand 'B,' ham, game and tongue.	"	A. Lemoine.	None	(Good.
"	12	Corned Beef	24239	F. P. Reid & Co., 3 " 60c.. Mechanic St., Mon- cton, N.B.	Libby, McNeill & Libby, Chicago.	Labelled Peerless compressed cooked cottage beef.	"	"	"	"
"	12	Prime Rost Beef.....	24240	George A. Robertson, 3 " 45c.. Main St., Mon- cton, N.B.	G. H. Hammond Co., Hammond, Indiana, and Chicago.	Labelled coin special prime roast beef. Quality guar- anteed.	"	"	"	"
"	9	Ham Loaf.	24232	W. A. Porter, Cor. 3 " 60c.. Waterloo & Union Sts. St. John, N.B.	Libby, McNeill & Libby, Chicago.	Labelled Libby's ham loaf....	"	"	"	"
"	10	Chicken Loaf.	24234	F. E. Williams Co., 3 " 60c.. Ltd., Cor. Princess and Charlotte Sts., St. John, N.B.	Armour & Co., Chicago	Labelled Veribest chicken loaf.	"	"	"	"
"	10	Roast Mutton.....	24235	M. & H. Gallagher & 3 " 75c.. Co., 34 Charlotte St., St. John, N.B.	D. W. Hoegg Co., Fredericton, N.B.	Labelled Sterling brand..	"	"	"	" inters- tices filled with fat
"	13	Chicken Loaf.....	24243	D. & J. Ritchie & 3 " 60c.. Co., Ltd, Main St., Newcastle, N.B.	Libby, McNeill & Libby, Chicago.	Labelled Libby's chicken loaf	"	"	"	(Good.
"	14	Vienna Sausage.	24244	J. B. Snowball Co., 3 " 45c.. Ltd., Water St., Chatham, N.B.	"	Labelled Libby's fine extra sausage.	"	"	"	"
"	16	Devilled Ham.	24246	W. J. Kent & Co., 3 " 30c.. Water St., Bat- hurst, N.B.	"	Labelled Libby's devilled ham	"	"	"	"
"	16	Dried Beef.....	24247	A. Normand Desbri- 3 jars, 65c.. say, St. George St., Bathurst, N.B.	"	Labelled Libby's peerless wafer sliced dried beef.	"	"	"	"
"	16	Canned Sausage.	24249	Holdengraber & Ros- 3 cans, 54c.. enberg, St. George St., Bathurst, N.B.	Davis & Fraser, Hali- fax, N.S. and Char- lottetown, P.E.I.	Labelled Oxford sausage.....	"	"	Boric acid...	"

INSPECTION OF CANNED MEAT SAMPLES IN THE INLAND REVENUE LABORATORY—Continued.

District of Quebec—C. E. Roy, Inspector.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.	Analyst's Name.	Preservatives Present.	Condition of Sample.
1906.									
June 18	Cooked Corned Beef.	659	S. Martel, Quebec.	3 boxes 45c.	W. Clark, Montreal.		A. Valin	None	Good.
" 18	Boneless Chicken.	660	Langlois & Paradis, Quebec.	" 60c.	The Dominion Packing Co., Charlottetown, P.E.I.	Labelled 'Royal'.	"	"	"
" 18	Corned Beef.	661	P. L. Turgeon, Quebec.	" \$1.05	Armour Packing Co., Chicago, Ill.	Labelled 'Compressed Cooked'.	"	"	"
" 19	"	662	A. G. Lambert, Lévis, Que.	" 45c.	W. Clark, Montreal.		"	"	"
" 19	Boneless Chicken.	663	C. G. Castonguay, Lévis, Que.	" \$1.05	Simcoe Canning Co., Sincoc, Ont.	Labelled 'delicious for breakfast, tea, &c.'	"	"	"
" 19	Sliced Star Bacon.	664	C. G. Castonguay, Lévis, Que.	" \$1.05	Armour & Co., Chicago, Ill.		"	"	"
" 20	Cooked Corned Beef.	665	Jos. Nolin, St. Romuald, Que.	" 45c.	W. Clark, Montreal.		"	"	"
" 20	"	666	A. E. Robitaille, St. Romuald, Que.	" 45c.	"		"	"	"
" 20	Lunch Beef.	667	M. J. Boivin, Lévis, Que.	" 45c.	The Canadian Packing Co., London, Ont.	Labelled 'Canadian produce'.	"	Boric acid.	"
" 21	Corned Beef.	670	Siméon Ratté, Ste. Anne, Que.	3 lbs. 54c.	Langlois & Paradis, Que.	Labelled 'Clarks Corned Beef'.	"	None	"
" 27	Sliced Bacon.	673	Jules Belanger, Beauport, Que.	3 boxes 60c.	Libby, McNeill & Libby, Chicago.	Labelled 'The Best'.	A. Lemoine	Boric acid.	"
" 28	Corned Beef.	675	Melle A. Bourré, Chateau Richer, Que.	" 54c.	W. Clark, Montreal.		"	None	"
" 29	"	677	Henry Ross & Son, St. Ambroise, Que.	" 45c.	W. Davies Co., Ltd., Toronto.		A. Valin	"	"
" 29	Corned Beef in Jelly.	678	Peoples Cash Store, St. Ambroise, Que.	" 54c.	J. Gaildrand, Quebec.	Labelled 'Manufactured of purely French products'.	"	"	Slightly decomposed.
" 29	Corned Beef.	679	Albert Rochette, Ambroise, Lorette, Que.	" 45c.	W. Clark, Montreal.		"	"	Good.
July 2	Veal Beef.	680	H. Pelletier et frere, St. Raymond, Que.	" \$1.05	Armour & Co., Chicago.		"	"	"

"	2	Tongue Lunch. . . .	681	Ulric Matte, St. Raymond, Que.	3	\$1.05.	W. Clark, Montreal.	Labelled 'Prime Quality' . . .	"	...	"	...	"
"	4	Potted Ham.	683	Edouard Gagnon, Ste. Marie, Beauce, Q.	3	"	Turcotte et frère, Que. (Armour & Co.)	Only a few boxes in stock . .	"	...	"	...	"
"	5	Oxford Sausage	684	Aug. Lageux, St. Joseph, Beauce, Q.	3	"	J. B. Bedard et frère, Que., (Dominion Packing Co.)	"	"	...	"	...	"
"	5	Corned Beef	687	P. F. Renant, Beauceville, Que.	3	"	Whitehead & Turner, Que.	Labelled 'Veribest,' Armour & Co.	"	...	"	...	"
"	12	Beef Loaf	690	L. N. Lavasseur, Fraserville, Que.	3	"	"	Labelled 'Libby's Peerless Beef Loaf.'	"	...	"	...	"
"	12	Melrose Paté	692	Alf. Le compte, Fraserville, Que.	3	"	Libby, McNeill & Libby.	.....	"	...	"	...	"
"	12	Sliced Star Bacon . . .	693	J. E. Pineau, Fraserville, Que.	3	"	Bought from Levesque.	Labelled 'Armour's' . . .	"	...	"	...	"
"	13	Corned Beef	694	Ls. Brunelle et frère, Trois Rivières.	3	"	Armour Packing Co., Kansas City, U.S.A.	.....	A. Lemoine.	...	"	...	"
"	13	Lunch Tongue	695	O'Carrigan et fils, Trois Rivières.	3	"	Armour & Co., Chicago	Labelled 'Veribest'	"	...	"	...	"
"	18	Sliced Bacon	701	J. A. Beaudet, Que.	3	"	M. Thibault, Que.	Labelled 'Libby's'	"	...	"	...	"
"	18	Corned Beef Hash . . .	702	A. Grenier, Quebec.	3	"	Hudon, Hebert et Cie., Montreal.	Labelled 'Libby, McNeill & Libby,'	"	...	"	...	"
"	18	Prime Roast Beef . . .	703	Eudore Patry, Que.	3	"	Armour Canning Co., Chicago.	.....	"	...	"	...	"
"	18	Irish Sausages	704	Jos. Savard, Quebec.	3	"	Rose Laflamme, Montreal.	Labelled as manufactured by the Cunningham & DeFou-rier Co., London, England.	"	...	"	...	"
"	19	Corned Beef	705	J. B. Cadrin, St. Anselme, Que.	3	"	Whitehead & Turner, Quebec.	Labelled as 'Dominion Pack- ing Co.'	"	...	"	...	"
"	20	Vienna Sausages	708	Art. Drolet, Quebec.	3	"	Armour Co., Chicago.	Labelled 'Veribest'	"	...	"	...	"
"	20	Chicken, Ham and Tongue.	709	L. N. Bergeron, Que.	3	"	Turcotte et frère, Que.	Labelled 'W. Clark, Mon- treal'	"	...	"	Boric acid . .	"
"	20	Jambon Glacé	710	Alf. Boily, Quebec.	3	"	.....	Packed by J. Gaildrand, Quebec.	"	...	"	None.	"

INSPECTION OF CANNED MEAT SAMPLES IN THE INLAND REVENUE LABORATORY—Continued.

District of St. Hyacinthe J. C. Rouleau, Inspector.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.	Analyst's Name.	Preservatives Present.	Condition of Sample.
1906.									
June 18	Corned Beef.....	406	T. A. Bourgault, 3 boxes, 45c. Drummondville, Que.		The Laing Packing and Provision Co., Ltd., Montreal.	.....	A. Valin....	None.....	Good.
" 18	Deville Brand Chicken.	407	O. T. Piché, Drummondville, Que.	" 45c.	W. Clark, Montreal...	.....	"	Boric acid..	"
" 19	Royal Bonless Chicken.	408	Michaud et fils, Plessisville, Que.	" 75c.	The Dominion Packing Co., Ltd., Charlottetown, P.E.I.	.....	"	None	"
" 21	Potted Tongue	409	W. Murray & Co., 3 Sherbrooke, Que.	" 45c.	W. Clark, Montreal...	.....	"	Boric acid..	"
" 21	Roast Beef	410	R. Johnson, Sherbrooke, Que.	" 90c.	The Park, Blackwell Co., Ltd., Toronto.	Labelled 'Quality and cleanliness guaranteed.'	"	None	"
" 21	Canadian Corned Beef.	411	J. A. Tronax, Farnham, Que.	" 1.05c.	" "	Labelled 'Red seal.'	"	"	"
" 22	" "	412	L. Moreau, St. Jean, Que.	" 60c.	W. Clark, Montreal...	.....	"	" .....	"
" 22	Boneless Pigs Feet...	414	F. J. Bourassa et Cie, 3 St. Jean, Que.	" 90c.	" "	.....	"	Boric acid..	"
" 19	Cooked Corned Beef.	422	H. H. Guay, Victoriaville, Que.	" 90c.	Libby, McNeill & Libby, Chicago.	Contents of this package inspected under Act of Congress, March 3, 1891.	"	None	"
" 19	Chicken Loaf.....	423	Paul Tourigny, Victoriaville, Que.	" 75c.	" "	" "	"	"	"
" 21	Veribest Corned Beef	424	L. H. Olivier, Sherbrooke, Que.	" 54c.	Armour & Co., Chicago.	" "	A. Lemoine.	"	"
" 21	Peerless Veal Loaf...	425	" "	" 99c.	Libby, McNeill & Libby, Chicago.	" "	"	"	"
" 21	Chipped Dried Beef.	426	H. Cook et fils, Farnham, Que.	" 51c.	" "	" "	"	"	"
" 22	Corned Beef.....	428	R. Gould, St. Jean, Que.	" 54c.	Armour & Co., Chicago.	" "	"	"	"
" 27	Cooked Corned Beef.	415	H. Bisailon, Lambert, Que.	" 45c.	W. Clark, Montreal...	A. Valin....	"	"

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"	27	Chicken, Ham and Tongue.	416	Victor Trudeau, St. Lambert, Que.	3	"	30c.	"	"	"	"	Boric acid..	"
"	27	Boned Chicken.....	417	P. Finch, St. Lambert, Que.	3	tins,	90c.	Aylmer Canning Co., Aylmer, Ont.	"	"	"	None..	Good.
"	27	Corned Beef.....	418	M. Viger, Longueuil, Que.	3	"	75c.	Simcoe Canning Co., Simcoe, Ont.	"	"	"	"	Slightly decomposed.
"	28	Lunch Tongue.....	419	Jos. Elie, Valley field, Que.	3	"	75c.	Port Hope Preserve and Canning Co., Port Hope, Ont.	"	"	"	Boric acid..	Good.
"	28	Beefsteak and Onions	420	L. Gendron, Valley field, Que.	3	"	60c.	W. Clark, Montreal.	"	"	"	"	"
"	29	Potted Ham.....	421	Sorel Meal Market, Sorel, Que.	3	"	15c.	The Laing Packing and Provision Co., Ltd., Montreal.	"	"	"	"	"
"	29	Fresh Chicken.....	423	J. O. Pagnan et Cie, Sorel, Que.	3	"	75c.	R. & H. Cox, Morell, P. E. I.	"	"	"	None.	"
"	27	Veribest Lunch Tongue.	429	P. Finch, St. Lambert, Que.	3	"	\$1.20	Armour & Co., Chicago	"	"	"	"	"
"	28	Melrose Pâté.....	430	W. Beaudry, Valley field, Que.	3	"	45c.	Libby, McNeill & Libby, Chicago.	"	"	"	"	"
"	28	Veal Loaf.....	431	"	3	"	38c.	"	"	"	"	"	"
"	28	Whole Pigs Feet....	432	Jos. Elie	3	"	30c.	"	"	"	"	"	"
"	29	Chicken Loaf.....	433	Sorel Meal Market, Sorel, Que.	3	"	75c.	"	"	"	"	"	"
"	29	Ham Loaf	434	"	3	"	60c.	"	"	"	"	"	"
"	29	Sliced Bacon.....	435	Alf. Francoeur et Cie, Sorel, Que.	3	"	75c.	Armour & Co., Chicago	"	"	"	"	"
"	29	Ham Loaf.....	436	"	3	"	60c.	Libby, McNeill & Libby, Chicago.	"	"	"	"	"
"	30	Whole Pigs Feet. . .	437	Pagnuelo et freres, St. Hyacinthe, Que.	3	"	45c.	"	"	"	"	"	"
"	30	Chipped Dried Beef.	455	"	3	"	45c.	Armour Canning Co., Chicago.	"	"	"	Doubtful, traces of boric acid.	"

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INSPECTION OF CANNED MEAT SAMPLES IN THE INLAND REVENUE LABORATORY—Continued.

District of Montreal J. J. Costigan, Inspector.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.	Analyst's Name.	Preservatives Present.	Condition of Sample.
1906.									
June 15	Jellied Veal	26775	Laing Packing and Provision Co., Mill St., Montreal.	3 tins, 27c..	Vendors ..	Taken from stock at factory as packed ready for shipment.	A. Lemoine.	None. . .	Good.
"	15 Roast Beef.	26776	" "	3 " 30c..	"	"	"	"	"
"	15 Lunch Ham	26777	" "	3 " 27c..	"	"	"	"	"
"	15 Corned Beef	26778	" "	3 " 27c..	"	"	"	"	"
"	15 English Brawn	26779	" "	3 " 27c..	"	"	"	"	"
"	15 Jellied Veal	27780	Davies, Ltd., Mill St., Montreal.	3 " 90c..	"	Taken from packed stock	"	"	"
"	15 Roast Beef	26781	Wm. Clark, Amherst St., Montreal.	3 " 34c..	"	Taken at factory from stock as prepared for shipment.	"	Boric acid..	"
"	15 Chicken Ham and Tongue.	26782	" "	3 " 33c..	"	"	"	"	"
"	15 Cooked Corned Beef.	26783	" "	3 " 34c..	"	"	"	None	"
"	15 Ready Lunch Beef. . .	26784	" "	3 " 34c..	"	"	"	Boric acid..	"
"	22 Boned Chicken.	26785	Bertrand & Laplaine, De Lormier, Que.	3 " 75c..	Simcoe Canning Co., Simcoe, Ont.	"	A. Valin . . .	None.	"
"	25 Prime Roast Beef. . .	27665	Demers, Fletcher & Co., St. Paul St., Montreal.	3 " 40c..	Armour Co., Chicago.	"	"	"	"
"	25 Chicken Loaf.	27666	" "	3 " 30c..	"	"	"	"	"
"	25 Beef Loaf.	27667	" "	3 " 30c..	"	"	"	"	"
"	25 Ham Loaf.	27668	" "	3 " 30c..	"	"	"	"	"

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"	26 Sausage Meat.	27669	Hudon, Orsali & Co., 3 St. Paul St., Mont- real.	"	49c.	Libby, McNeill & Libby, Chicago.	"	...	"	"
"	26 Tripe	27670	Hudon, Orsali & Co., 3 St. Paul St., Mont- real.	"	tins, 40c.	Libby, McNeill & Lib- by, Chicago.	.....	"	..	"	.....	"
"	26 Lunch Tongue	27671	" " " " " " " "	3	" 98c.	" " " " " " " "	.....	"	..	"	.....	"
"	27 Potted Beef	27672	Fraser, Viger & Co., 3 St. James St., Mont- real.	3	" 30c.	Franco-American Food Co., Jersey City Heights, N. Y., U. S. A	.....	"	..	"	.....	"
"	27 Boned Chicken	27673	" " " " " " " "	3	" \$1.05.	Richardson & Robbins, Dover, Del., U. S.	.....	"	..	"	.....	"
"	27 Potted Tongue	27674	" " " " " " " "	3	" \$1.05.	" " " " " " " "	.....	A. Lemoine.	..	"	.....	"
"	27 Potted Chicken	27675	" " " " " " " "	3	" \$1.20.	" " " " " " " "	.....	"	..	"	.....	"
"	27 Beef à la Mode,	27676	" " " " " " " "	3	" \$1.05.	Franco-American Food Co., Jersey City Heights, N. Y., U. S. A	.....	"	..	"	.....	"
"	27 Ham Loaf	27677	L. Chaput, fils & Co., 3 De Bresoles St., Montreal.	3	" 62c.	Libby, McNeill & Lib- by, Chicago.	.....	"	..	"	.....	"
"	27 Chicken Loaf	27678	" " " " " " " "	3	" 75c.	" " " " " " " "	.....	"	..	"	.....	"
"	27 Dried Beef	27679	" " " " " " " "	3	" 63c.	" " " " " " " "	.....	"	..	"	.....	"
"	27 Cottage Loaf	27680	" " " " " " " "	3	" 63c.	" " " " " " " "	.....	"	..	"	.....	"
"	25 Lunch Tongue	27686	W. De Montigny, 464 3 Centre St., Mont- real.	3	" 90c.	Lawry & Son, Hamil- ton, Ont.	.....	"	..	"	.....	"
"	25 " " " " " " " "	26787	Demers, Fletcher & 3 Co., St. Paul St., Montreal.	3	" 71c.	Aylmer Canning Co., Aylmer, Ont.	.....	"	..	"	.....	"
"	26 Boneless Veal	26788	Hudon, Orsali & Co., 3 St. Paul St., Mont- real.	3	" 41c.	Canadian Packing Co., London, Ont.	"	..	Boric acid..	"
"	26 Lunch Bacon	26789	" " " " " " " "	3	" 42c.	" " " " " " " "	"	..	None	"
"	26 Brawn	26790	" " " " " " " "	3	" 42c.	" " " " " " " "	"	..	Boric acid	"

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"	19 Lunch Tongue	29335	R. E. Powell, Wellington st., Ottawa	Wel-3 cans, \$1.05.	Laing Packing Co., Montreal.	Co.,	Labelled Laing's lunch tongue	"	"	"	"	"	"
"	19 Chicken Loaf	29337	"	"	3	Libby, McNeill & Libby, Chicago.	Libby, McNeill & Libby, Chicago.	Labelled peerless chicken loaf	"	"	"	"	"
"	19 Vienna Sausage	29338	"	"	3	"	"	Labelled Libby's extra fine Vienna sausage.	"	"	"	"	"
"	19 Cottage Loaf	29339	"	"	3	"	"	Labelled peerless cottage loaf	"	"	"	"	"
"	19 Chipped Dried Beef	29340	"	"	3 jars,	"	"	Labelled chipped dried beef.	"	"	"	"	"
"	19 Melrose Pate	29341	"	"	3 cans,	"	"	Labelled Libby's Melrose pate.	"	"	"	"	"
"	19 Boned Chicken	29342	"	"	3	Van Camp Packing Co., Indianapolis, Ind.	Van Camp Packing Co., Indianapolis, Ind.	Labelled Van Camp's boned chicken.	"	"	"	"	"
"	19 Chicken Loaf	29344	"	"	3	Armour & Co., Chicago	Armour & Co., Chicago	Labelled chicken loaf	"	"	"	"	"
"	20 Sausage	29347	Mayberry & Prescott On	Co., 3	"	"	"	Labelled 'English luncheon sausage.'	"	"	"	"	"
"	20 Vienna Sausage	29348	"	"	3	Libby, McNeill & Libby, Chicago.	Libby, McNeill & Libby, Chicago.	Labelled 'Wiener Wurst'	"	"	"	"	"
"	20 Potted Ox Tongue	29349	"	"	3	Armour & Co., Chicago	Armour & Co., Chicago	.....	"	"	"	"	"
"	20 Boned Turkey	29350	"	"	3	Aylmer Canning Co., Aylmer, Ont.	Aylmer Canning Co., Aylmer, Ont.	Labelled 'for travellers and excursionists.'	"	"	"	"	"
"	20 Potted Ham	29351	"	"	3	W. Clark, Montreal	W. Clark, Montreal	.....	"	"	"	"	"
"	20 Beef Loaf	29354	J. Culbert, ville, Ont.	Brock-3	"	Armour & Co., Chicago	Armour & Co., Chicago	'Veribest'	"	"	"	"	"
"	20 Potted Beef	29355	Davies & Co., ville, Ont.	Brock-3	"	Davies & Co., Toronto.	Davies & Co., Toronto.	.....	"	"	"	"	"
"	20 Potted Ham	29356	"	"	3	"	"	.....	"	"	"	"	"

INSPECTION OF CANNED MEAT SAMPLES IN THE INLAND REVENUE LABORATORY—Continued.

District of Kingston—J. Hogan, Inspector.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.	Analyst's Name.	Preservatives Present.	Condition of Sample.
1606.									
June 18	Chicken	29441	Davies, Front St., Belleville, Ont.	3 tins, \$1.05..	Aylmer Canning Co., Aylmer, Ont.	Labelled 'Boned Chicken.'	A. Lemoine.	None....	Good.
"	18 Corned Beef.....	29442	" "	3 " 90c..	Davies Co., Toronto.	'Genuine Canadian produce.'	"	"	"
"	18 Lunch Tongue.	29443	" "	3 " 90c..	"	.....	"	"	"
"	18 Cambridge Sausage..	29444	" "	3 " 90c..	"	Labelled 'specially prepared for export.'	"	"	"
"	18 Jellied Tenderloins..	29445	" "	3 " 90c..	"	'Genuine Canadian produce.'	"	"	"
"	18 Chipped Dried Beef	29446	O. S. Hicks, Front St., Belleville, Ont.	3 " 75c..	Libby, McNeill & Libby, Chicago.	.....	"	"	"
"	18 Devilled Beef.	29447	J. H. P. Young, Front St., Belleville, Ont.	3 " 30c..	W. Clark, Montreal.	.....	"	Boric acid..	"
"	18 Beef Loaf.....	29449	J. P. McKeeny, Port Hope, Ont.	1½ lbs., 45c.	Libby, McNeill & Libby, Chicago.	Labelled 'The best.'	"	None.	"
"	18 Roast Beef	29450	" "	3 " 45c..	W. Clark, Montreal.	Labelled 'Davis Cooked English roast beef.'	"	"	"
"	18 Veal Loaf.....	29452	S. Fount, Main St., Port Hope, Ont.	1½ " 45c..	Libby, McNeill & Libby, Chicago.	'The best'.....	"	"	"
"	18 Vienna Sausage.	29453	" "	3 tins, 45c.	"	.....	"	"	"
"	19 Ham Loaf.....	29454	D. Adams, Kent St., Lindsay, Ont.	3 " 45c..	Armour, Chicago.	'Veribest.'	"	"	"
"	19 Veal Loaf.....	29455	" "	3 " 45c..	"	"	"	"	"
"	19 Pigs Feet.....	29456	" "	3 " 45c..	"	Labelled 'Boneless,'	"	"	"
"	19 Potted Ox Tongue...	29459	A. Primeau, Lindsay, Ont.	3 " 30c..	"	'Veribest.'	"	"	"
"	19 Roast Beef.....	29460	" "	3 " 45c..	W. Clark, Montreal.	Labelled 'Cooked English.'	A. Valin..	Boric acid..	"

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"	19 Veal Loaf.....	29463	J. Sutherland, George St., Peterborough.	3 tins,	38c	Armour Co., Chicago.	"	..	None.	"
"	19 Chicken	29464	" "	3 "	15c.	W. Clark, Montreal.	.....	"	..	Boric acid...	"
"	19 Pigs Feet.	29465	" "	3 "	15c.	" "	Labelled 'Boneless' ..	"	..	None....	"
"	19 Pork and Beans.	29466	" "	3 "	15c.	" "	.....	"	..	Boric acid...	"
"	19 Brisket Beef....	29468	Mason Co., Peterboro', Ont.	3 "	90c.	Armour Co., Chicago.	'Veribest'	A. Lemoine.	..	None....	"
"	19 Lunch Tongue.....	29469	" "	3 "	1 10c	Aylmer Canning Co., Aylmer, Ont.	.....	"	..	"	"
"	19 Dried Beef.....	29472	W. H. Hamilton, Peterboro', Ont.	3 "	90c	Libby, McNeill & Libby, Chicago.	.....	"	..	"	"
"	19 Lunch Tongue.....	29473	" "	3 "	1 10c	" "	Labelled 'Cooked'	"	..	"	"

INSPECTION OF CANNED MEAT SAMPLES IN THE INLAND REVENUE LABORATORY - Continued.

District of Toronto- J. J. Costigan, Inspector.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.	Analyst's Name.	Preservatives Present.	Condition of Sample.
1906.									
June 19	Chipped Dried Beef.	27617	Green Valley Produce Co., 434 Queen St., Toronto.	30c.	Libby, McNeill and Libby, Chicago.	.....	A. Valin....	None.....	Good.
" 19	Veal Loaf.....	27618	" " " " " "	45c.	" " " " " "	.....	" " " " " "	" " " " " "	" " " " " "
" 19	" " " " " "	27619	" " " " " "	30c.	Armour Co., Chicago..	.....	" " " " " "	" " " " " "	" " " " " "
" 19	Ham Loaf.....	27620	F. W. Chapman, 530 3 Yonge St., Toronto	45c.	Libby, McNeill and Libby, Chicago.	.....	" " " " " "	" " " " " "	" " " " " "
" 19	Corned Beef Hash...	27621	" " " " " "	60c.	Armour & Co., Chicago	.....	" " " " " "	" " " " " "	" " " " " "
" 19	Vienna Sausage	27622	" " " " " "	45c.	" " " " " "	.....	" " " " " "	" " " " " "	" " " " " "
" 19	Potted Tongue	27623	H. Tolchard, 518 3 Yonge St., Toronto	60c.	Columbia Conserve Co., Indianapolis, U.S.	.....	" " " " " "	" " " " " "	" " " " " "
" 19	Potted Ham and Turkey.	27624	" " " " " "	60c.	" " " " " "	.....	" " " " " "	" " " " " "	" " " " " "
" 19	Ham Loaf.....	27625	F. Patience, 429 3 Yonge St., Toronto	45c.	Armour Co., Chicago..	.....	" " " " " "	" " " " " "	" " " " " "
" 19	Roast Beef.....	27626	J. Blood, 419 Yonge St., Toronto.	45c.	W. Clark, Montreal...	.....	" " " " " "	Boric acid ..	" " " " " "
" 20	Boned Turkey.....	27627	Elby, Blain Co., Ltd., 3 Front St., Toronto	80c.	Aylmer Canning Co., Aylmer, Ont.	.....	" " " " " "	None.....	" " " " " "
" 20	Lunch Tongue.....	27628	" " " " " "	80c.	" " " " " "	.....	" " " " " "	" " " " " "	" " " " " "
" 20	Pigs Feet.....	27629	" " " " " "	60c.	" " " " " "	.....	" " " " " "	" " " " " "	" " " " " "
" 20	Liver and Bacon.....	27630	" " " " " "	45c.	Libby, McNeill and Libby, Chicago.	.....	" " " " " "	" " " " " "	" " " " " "
" 20	Cottage Loaf	27631	" " " " " "	35c.	" " " " " "	.....	" " " " " "	" " " " " "	" " " " " "
" 20	Chicken Loaf.....	27632	" " " " " "	45c.	" " " " " "	.....	" " " " " "	" " " " " "	" " " " " "

"	18	Roast Beef.....	27601	The Wm. Davies Co., Ltd., Toronto, Ont.	3	37c..	Vendors			A Lemoine	"	"	"
"	18	Lunch Tongue.....	27602	" "	3	82c..	"	These samples were col- lected at the factory and were each taken from boxes ready packed for shipment.	"	" A. Valin..	Boric acid...	"	"
"	18	Cambridge Sausage..	27603	" "	3	50c..	"			"	None.....	Meat badly decomposed.	"
"	18	Veal Loaf.....	27604	" "	3	57c..	"			"		Good.	"
"	18	Corned Beef.....	27605	" "	3	37c..	"			"			"
"	18	Jellied Veal.....	27606	" "	3	40c..	"			"			"
"	18	Corned Beef.....	27607	Armour, Ltd., 77 Front St., Toronto, Ont.	3	40c..	Armour & Co., Chicago	Labelled 'Compressed cook- ed and veribest.'		"			"
"	18	Boned Chicken.....	27608	Michie Co., Ltd., King St., West, Toronto.	3	1'05c	Aylmer Canning Co., Aylmer, Ont.	Labelled 'Canada First.'....		"			"
"	18	Melrose Paté... ..	27609	" "	3	45c..	Libby, McNeill & Libby, Chicago.	Labelled 'Peerless.'.....		"			"
"	18	Chicken Tamale.....	27610	" "	3	60c.	Armour & Co., Kansas City.	Labelled prepared from Mexi- can Receipts.		"			"
"	18	Corned Beef Hash. . .	27611	" "	3	75c..	Libby, McNeill & Libby, Chicago.	Labelled 'Peerless.'.....		"			"
"	19	Roast Beef.....	27612	The Park, Blackwell Co., Ltd., Toronto, Ont.	3	34c..	Vendors.....	These samples were col- lected at the packing house of vendors and were taken from stock as prepared for shipment..		"			"
"	19	Corned Beef.....	27613	" "	3	34c..	"			"			"
"	19	Lunch Tongue.....	27614	" "	3	70c..	"			"			"
"	19	Corned Beef.....	27615	Uxbridge Produce Co., 506 Queen St., Toronto.	3	45c..	W. Clark, Montreal...			"			"
"	19	Boned Chicken.....	27616	Green Valley Pro- duce Co., 434 Queen St., Toronto.	3	54c..	Meaford Canning Co., Meaford.			"			"

INSPECTION OF CANNED MEAT SAMPLES IN THE INLAND REVENUE LABORATORY—Continued.

District of London T. Kidd, Inspector.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.	Analyst's Name.	Preservatives Present.	Condition of Sample.
1906.									
June 23	Chicken and Ham...	30097	John Beattie & Co., Seaforth, Ont.	3 tins	30c	William Clark, Mont-real.	Chicken, Ham and Tongue.	Boric acid...	Good....
" 25	Corned Beef.....	30098	Sturdy & Co., God-erich, Ont.	3 "	45c.	Davies & Co., Ltd., Toronto.	'Compressed, Cooked.'	None	"
" 25	Potted Tongue....	30100	J. W. Smith, God-erich, Ont.	3 cans,	15c.	Libby, McNeill & Libby, Chicago, U.S.	"	"	"
" 25	Corned Beef.....	30101	W. R. Smith, Seaforth, Ont.	3 tins,	45c.	Armour Canning Co., Chicago.	"	"	"
" 25	Libby's Ham Loaf...	30102	Cardino Bros., Seaforth, Ont.	3 "	45c.	Libby, McNeill & Libby, Chicago, U.S.	Labelled 'Peerless'.	"	"
" 25	Ham and Tongue....	30103	Peter Dill, Seaforth, Ont.	3 "	30c.	William Clark, Mont-real.	Called Clark's Chicken, Ham and Tongue.	Boric acid...	"
" 27	Potted Tongue ...	30105	M.H. Killoran, Strat-ford, Ont.	3 "	30c.	Wm. Davies & Co., Toronto.	"	None.....	"
" 27	Corned Beef	30106	A. L. Kastner, Strat-ford, Ont.	3 "	30c.	"	Labelled 'Compressed, Cooked.'	Boric acid...	"
" 27	Corned Beef Hash..	30107	Will. J. Norfolk, Stratford, Ont.	3 "	45c.	Libby, McNeill & Libby, Chicago.	Labelled 'Peerless'.	None.....	"
" 28	Chipped Dried Beef..	30108	C. McIlhargey, Strat-ford, Ont.	3 "	60c.	"	"	"	"
" 28	"	30110	Peckard & Fleming, St. Mary's, Ont.	3 "	45c.	"	"	"	"
" 28	Sliced Smoked Beef..	30111	J. M. Adams, St. Mary's Ont.	3 cans,	45c.	Wm. Clark, Montreal	"	"	"
" 28	Corned Beef.....	30112	J. W. Hutton, St. Mary's Ont.	3 tins,	42c.	Laing Packing Co., Montreal.	Labelled "Compressed, Cooked."	"	"
" 28	Lunch Bacon.....	30113	A. McCormick & Son, London, Ont.	3 "	45c.	Canadian Packing Co., London, Ont.	"	Boric acid...	"
" 28	Lunch Beef	30114	"	3 "	45c.	"	'Canadian Produce'.	"	"
" 28	Vienna Sausage Meat	30115	"	3 "	30c.	Libby, McNeill & Libby, Chicago.	"	None.	"

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"	29	Potted Beef.	30116	George H. Wairn, 3 Windsor, Ont.	"	30c..	Armour Canning Co., Chicago.	A. Lemoine.	"	"
"	29	Corned Beef.....	30117	George P. Lodge, 3 Windsor, Ont.	"	45c..	Libby, McNeill & Libby, Chicago.	Labelled 'Cooked Corned Beef,' 'Veribest' .....	"	"	....	"	....
"	29	"	30118	John Craft, Windsor, 3 Ont.	"	45c..	Armour Canning Co., Chicago.	....	"	"	....	"	....
"	29	Veal Loaf.	30119	W. J. Cheney, 3 Windsor, Ont.	"	45c..	"	....	"	"	....	"	....

INSPECTION OF CANNED MEAT SAMPLES IN THE INLAND REVENUE LABORATORY—Continued.

District of Manitoba—W. M. Conklin, Inspector.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.	Analyst's Name.	Preservatives Present.	Condition of Sample.
1906.									
June 19	19 Lunch Tongue.....	25780	The Jobin, Marrin Co., Winnipeg.	3 cans, 85c..	Aylmer Canning Co., Aylmer, Ont.	Labelled 'Canada First'	A. Lemoine.	None.....	Good.
"	19 Boneless Pigs Feet...	25781	" " "	3 " 40c..	W. Clark, Montreal...	.....	"	"	"
"	19 Jellied Tenderloin...	25782	" " "	3 " 75c..	The Canadian Packing Co., London, Ont.	Labelled also 'Filet de Porc en Fromage.'	"	"	"
"	20 Boneless Turkey.....	25783	Foley, Lock & Larson, Winnipeg.	3 " 65c..	The Delhi Canning Co. ....	.....	"	"	"
"	20 Boneless Chicken....	25784	" " "	3 " 65c..	The Dominion Packing Co., Charlottetown, P. E. I.	.....	"	"	"
"	20 Roast Beef	25785	" " "	3 " 75c..	Wm. Davies Co., Toronto, Ont.	Labelled 'Davies English Roast Beef.'	"	"	"
"	21 Boneless Chicken....	25786	The Manitoba Canning Co., Grande Pointe, Man.	2 " "	Vendors .....	.....	"	"	"
"	21 Corned Beef.....	25787	" " "	2 " "	" .....	.....	"	"	"
"	21 Roast Beef	25788	" " "	2 " "	" .....	.....	"	"	"
"	22 Lunch Tongue.	25789	Campbell Bros. & Wilson, Winnipeg.	3 " 75c..	The Laing Packing & Provision Co., Montreal.	.....	"	"	"

District of British Columbia—E. B. Parkinson, Inspector.

June 19	19 Beef Loaf.....	28129	Malkin & Co., Vancouver.	3 tins, 31c..	Wm. Clark, Montreal.	Prepared with great care from selected stock.	A. Lemoine.	None.....	Good.
"	19 Devilled Ham.....	28130	" " "	3 " 28c..	Wm. Davies Co., Ltd., Toronto.	Genuine Canadian produce.	"	Boric acid...	"
"	19 Corned Beef	28131	" " "	3 " 38c..	Manitoba Canning Co., Manitoba.	.....	"	None.....	"

19	"	28132	"	3	37c.	Wm. Davies Co., Ltd., Toronto.	"	"	"	"	Boric acid, doubtful.
19	"	28133	"	3	38c.	W. Clark, Montreal.	"	Warranted to keep in all climates.	"	"	None
19	Jellied Veal	28134	"	3	43c.	Laing Packing Co., Montreal.	"	Selected, preserved and packed with reference to its keeping in all climates.	"	"	"
19	Veal Loaf	28135	"	3	31c.	W. Clark, Montreal.	"	Prepared with greatest care from selected stock.	A. Valin	Boric acid	"
19	English Brawn	28136	"	3	37c.	"	"	"	"	"	"
19	Roast Beef	28137	"	3	38c.	Manitoba Canning Co., Grand Point, Man.	"	"	"	"	"
19	Ham Loaf	28138	"	3	31c.	W. Clark, Montreal.	"	Labelled 'Clark's Ready Lunch.'	"	"	"
19	Chicken Taxale	28139	"	3	41c.	Spanish American Food Co., San Francisco, Cal.	"	Extra quality; pure food.	"	None	"
19	Peerless Corned Beef Hash.	28140	"	3	38c.	Libby & Co., Chicago.	"	Inspected according to Act of Congress. Warranted to keep in any climate.	"	"	"
19	Roast Beef	28141	"	3	48c.	Cudahy Packing Co., Omaha.	"	'Rex' brand, inspected ac- cording to Act of Con- gress.	"	"	"
19	"	28142	"	3	44c.	Armour Packing Co., Kansas.	"	First quality, inspected ac- cording to Act of Congress.	"	"	"
19	Lun h Tongue	28143	"	3	\$1.06.	Cudahy Packing Co., Omaha.	"	"	"	"	"
19	Veribest Devilled Ham	28144	"	3	14c.	Armour & Co., Chi- cago.	"	"	"	"	"
19	'Veribest' Devilled Ham.	28145	Malkin & Co., Van- couver.	3 tins.	15c.	Libby & Co., Chicago.	"	Inspected according to Act of Congress.	"	"	"
19	Veal Loaf	28146	"	3	35c.	"	"	"	"	"	"
19	Ham Loaf	28147	"	3	35c.	"	"	"	"	"	"
19	Sliced Star Bacon	28148	"	3	\$1.00.	Armour & Co., Chicago	"	"	"	"	"
19	Boneless Chicken	28149	Kelly, Douglas & Co., Vancouver.	3	79c.	Dellhi Canning Co., Ont.	"	Perfection in cure and flavour. Guaranteed superior quality.	"	"	"
19	Roast Beef	28150	"	3	35c.	W. Davies, Toronto.	"	Genuine Canadian produce and to keep in any climate.	"	Boric acid	"
19	Beefsteak and Onions	28151	"	3	46c.	Cudahy Packing Co., Omaha.	"	Inspected according to Act of Congress.	"	None	"
19	Vienna Sausage	28152	"	3	34c.	Libby & Co., Chicago.	"	"	"	"	"
19	Pigs Feet	28153	"	3	56c.	Armour Packing Co., Chicago.	"	"	"	"	"
19	Vienna Sausage	28154	"	3	30c.	"	"	Inspected according to Act of Congress. 'Extra quality.'	"	Boric acid	"
20	Roast Mutton	28160	Hudson Bay Co., Vancouver.	3	46c.	W. Davies, Toronto.	"	Genuine Canadian produce.	"	None	"
20	Roast Beef	28161	"	3	41c.	Laing & Co., Montreal.	"	"	"	"	"

INSPECTION OF CANNED MEAT SAMPLES IN THE INLAND REVENUE LABORATORY—Concluded.

District of British Columbia—E. B. Parkinson, Inspector—Concluded.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.	Name and Address of Manufacturer or Furnisher.	Inspector's Report.	Analyst's Name.	Preservatives Present.	Condition of Sample.
1906.									
June 20	Lunch Tongue. . . .	28162	Hudson Bay Co., Vancouver.	3 tins, 73c	Aylmer Canning Co., Aylmer, Ont.	Canada First; warranted first-class.	A. Valin...	None . . .	Good.
" 21	Jellied Tenderloin . . .	28163	F. Wright, Vancouver.	" \$1.05 . .	Canadian Packing Co., London, Ont.	'Pore en Fromage'	"	"	"
" 21	Devilled Ham	28165	H. A. Edgett, Vancouver.	" 45c . .	John Morrell & Co., Ottumwa, Iowa.	Inspected in accordance with Act of Congress.	"	"	"
" 21	Sliced Dried Beef . . .	28166	" "	" 3 " 95c .	Armour Canning Co., Chicago.	. . . . .	"	" . . . . .	"

APPENDIX S.

BULLETIN No. 124—FERTILIZERS AS SOLD, 1906.

OTTAWA, August 17, 1906.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—In the months of April, May and June of the present year a collection was made of agricultural fertilizers as sold in the open market. The number of samples obtained was 115, among which there were 31 which were not registered, or at any rate could not be identified as represented among the standard samples described in Bulletin No. 118. With respect to these cases, the provisions of the Fertilizers Act not having been complied with, the vendors are plainly liable to the penalties specified in Section 14. The following is a statement of the number of samples obtained in the various inspection districts, and the general results of examining them:—

Inspection Districts.	Genuine.	Not registered.	Doubtful.	Adulterated.	Total.
Nova Scotia.....	9	0	2	1	12
P. E. Island....	1	0	1	1	3
New Brunswick .	9	2	1	0	12
Quebec	6	1	0	0	7
St. Hyacinthe	9	1	1	1	12
Montreal	10	0	0	2	12
Ottawa	8	2	0	3	13
Kingston	2	5	0	2	9
Toronto..	5	6	1	1	13
London	2	4	1	0	7
Calgary	0	3	0	0	3
British Columbia..	5	7	0	0	12
	66	31	7	11	115

In the tabulated statement attached to this report will be found the names of the vendors and manufacturers of these fertilizers as well as the names under which they were sold and the result of their analysis by the district analysts. The manufacturers guarantee is also given in the case of the registered samples, as well as the analysis and number of the corresponding standard samples. The analyst's findings, such as 'unadulterated' or 'according to guarantee,' are supposed to have the same value as the word 'genuine.' Sometimes a deficiency in certain constituents is pointed out by the analyst but not sufficient to be considered as adulteration. These cases and those in which there are slight differences from the guarantee are classed as doubtful. The percentage of genuine samples in the total number collected is 57.4 which does not greatly differ from the same percentage in last year's collection which was 56.9.

I beg to recommend the publication of this report.

I have the honour to be, sir,
Your obedient servant,

THOMAS MACFARLANE,
Chief Analyst.

6-7 EDWARD VII., A. 1907

RESULTS of examining 115 samples of Fertilizers

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Lbs.	Cts.		
1906.			<i>District of Nova Scotia— R. J. Waugh, Inspector.</i>				
April 23	Potato Manure...	27440	G. R. Roy, Kentville, N.S.	3	...	Swift Fertilizer Co., Lowell, Mass.	As sold..... As guaranteed.. Standard sample (1818).
"	23 Ground Bone . . .	27441	" " " "	3	...	" " " "	As sold..... As guaranteed.. Standard sample (1821).
"	24 " " " " " " " "	27445	C. O. Allen " " " "	3	...	Pidgeon Fertilizer Co., Windsor N.S.	As sold..... As guaranteed.. Standard sample (1841).
"	24 Potato and Vegetable Fertilizer..	27446	F. W. Woodman, Wolfville, N.S.	3	...	Bowker Fertilizer Co., Boston, Mass.	As sold..... As guaranteed.. Standard sample (1745).
"	24 Hill and Drill Fertilizer.	27447	" " " "	3	...	" " " "	As sold..... As guaranteed.. Standard sample (1756).
"	24 Square Brand Bone and Potash.	27448	" " " "	3	...	" " " "	As sold..... As guaranteed.. Standard sample (1747).
"	24 Swift's Animal Brand.	27449	R. E. Harris " " " "	3	...	Swift's, Lowell, Mass	As sold..... As guaranteed.. Standard sample (1820).
"	26 Intense Brand . . .	27450	J. A. Kirkpatrick, Shubenacadie, N.S.	3	...	Pidgeon Fertilizer Co., Windsor, N.S.	As sold..... As guaranteed.. Standard sample (1843).
"	26 Potato Manure....	27451	" " " "	3	...	" " " "	As sold..... As guaranteed.. Standard sample (1844).
"	27 Potato Phosphate.	27454	W. McV. Smith, Dartmouth, N.S.	...	5	Provincial Chemical Fertilizer Co., St. John, N.B.	As sold..... As guaranteed.. Standard sample (1771).
"	27 Imperial Super-phosphate.	27455	" " " "	...	5	" " " "	As sold. As guaranteed.. Standard sample (1770).
"	27 Soluble Pacific Guano.	27456	E. M. Walker, Dartmouth, N.S.	...	...	American Agricultural Chemical Co., New York.	As sold..... As guaranteed.. Standard sample (1793).
			<i>District of P. E. Island— —T. Moore, Inspector.</i>				
April 23	Swift's Fertilizer .	28278	L. D. Shurman, Kensington.	...	...	Swift's Lowell Fertilizer Co., Boston.	As sold As guaranteed.. Standard sample (1821).
"	26 Bowker's Potato and Vegetable Phosphate.	28284	A. Pickard, Charlottetown.	...	...	Bowker's Fertilizer Co., Boston and New York.	As sold..... As guaranteed.. Standard sample (1745).

SESSIONAL PAPER No. 14

as Sold—by the Public Analysts.

RESULTS OF ANALYSIS.										Relative value per ton of 2,000 lbs.	No. of Sample.	Name of Analyst.	Remarks by the Public Analysts.
Nitrogen.		Phosphoric Acid.					Potash.	Moisture.					
Total.	As Ammonia.	Soluble in Water.	Citric Soluble.	Insoluble.	Total.	Available.							
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	\$ cts.				
1.62	1.97	5.69	1.59	3.02	10.30	7.28	4.18	11.37	16 79	27440	M. Bowman	Unadulterated.	
.....	2.00	.....	.....	.....	8.00	7.00	4.00	.....	.....		
2.04	2.48	6.08	2.87	1.76	10.71	8.95	4.40	10.50	22 27				
2.04	2.48	.....	18.69	9.53	28.22	18.69	.....	4.38	30 36	27441	"	"	"
.....	3.00	.....	.....	.....	25.00	.....	.....	.....	.....
2.79	3.38	.....	19.03	8.64	27.67	19.03	.....	2.82	33 01				
3.22	3.91	.....	14.74	10.62	25.36	14.74	.....	7.35	30 35	27445	"	"	"
.....	3.00	.....	.....	.....	20.00	.....	.....	.....	.....
2.80	3.40	.....	15.20	8.63	23.83	15.20	.....	5.97	28 82				
1.51	1.84	5.36	2.80	2.65	10.81	8.16	4.61	18.91	20 04	27446	"	"	"
.....	2.00	.....	.....	.....	10.00	9.00	2.00	.....	.....		
1.85	2.14	7.93	1.51	1.91	11.35	9.44	3.51	7.20	21 54				
2.27	2.75	6.77	2.46	1.95	11.18	9.23	1.96	13.31	21 08	27447	"	"	"
.....	3.00	.....	.....	.....	10.00	9.00	2.00	.....	.....		
2.57	3.12	3.20	5.11	2.72	11.03	8.31	2.45	6.67	21 45				
1.48	1.80	1.09	5.63	5.85	12.57	6.72	2.69	11.19	16 97	27448	"	"	"
.....	2.00	.....	.....	.....	7.00	6.00	2.00	.....	.....		
1.34	1.63	3.20	5.91	1.92	11.03	9.11	2.35	3.03	17 61				
2.44	2.96	6.72	2.83	2.67	12.22	9.55	4.42	11.97	24 68	27449		"	"
.....	3.00	.....	.....	.....	10.00	9.00	4.00	.....	.....		
2.55	3.09	6.08	4.00	2.52	12.60	10.08	4.29	10.40	25 40				
2.69	3.26	4.53	2.98	1.82	9.33	7.51	4.22	11.41	22 60	27450	"	"	"
.....	2.50	.....	.....	.....	.....	7.00	4.50	.....	.....		
3.15	3.82	4.47	2.69	2.43	9.59	7.16	4.59	11.80	24 33				
2.27	2.75	4.61	2.98	1.37	8.96	7.59	3.99	11.18	20 91	27451	"	"	"
.....	2.50	.....	.....	.....	.....	8.00	4.50	.....	.....		
2.38	2.89	5.11	2.89	2.23	10.23	8.00	4.84	10.00	22 89				
1.65	2.01	6.11	2.73	2.83	11.67	8.84	3.56	15.98	20 34	27454	"	Deficient in potash.	
.....	2.50	.....	.....	.....	.....	8.00	6.50	.....	.....		
2.17	2.63	5.43	3.66	5.11	14.20	9.09	7.60	8.30	27 03				
1.43	1.73	4.53	2.23	4.53	11.29	6.76	1.81	15.98	15 95	27455	"	Deficient in phosphoric acid and nitrogen and therefore adulterated	
.....	3.00	.....	.....	.....	.....	10.50	1.50	.....	.....		
2.59	3.00	6.00	2.48	4.77	13.25	8.48	1.35	10.10	21 50				
1.79	2.18	4.02	4.20	2.30	10.52	8.22	1.39	18.61	17 60	27456	"	Unadulterated.	
2.06	2.50	5.00	3.00	2.00	10.00	8.00	1.50	.....	.....		
2.18	2.65	6.72	2.23	2.56	11.51	8.95	2.12	14.42	20 80				
1.82	2.21	.....	18.80	1.48	20.28	18.80	.....	15.45	27 30	28278	M. Bowman	Deficient in phosphoric acid and therefore adulterated.	
.....	3.00	.....	.....	.....	25.00	.....	.....	.....	.....
2.79	3.38	.....	19.03	8.64	27.67	19.03	.....	2.82	33 01				
1.09	1.33	7.37	1.45	2.18	11.00	8.82	2.29	14.14	17 07	28284	"	Unadulterated.	
.....	2.00	10.00	9.00	2.00				
1.85	2.14	7.93	1.51	1.91	11.35	9.44	3.51	7.20	21 54				

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RESULTS of examing 115 samples of Fertilizers

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Lbs.	Cts.		
1906.			District of P. E. Island —T. Moore, Inspector Con.				
April 29	Potato Phosphate.	28255	R. E. Mutch, Charlottetown.	...	...	Nova Scotia Fertilizer Co., Halifax, N.S.	As sold..... As guaranteed.. Standard sample (1922).
			District of New Brunswick—J. C. Ferguson, Inspector.				
April 25	Reid's Superphosphate.	24173	Thomas Reid, Parish of Simonds. St. John County, East, N.B.	3	10	Vendor.....	As sold... .. As guaranteed.. Standard sample (1810).
26	Lowell Potato Manure.	24174	P. Nase & Son, St. John, N.B., north end, Indian town Dock.	3	15	Swift's Lowell Fertilizer Co., 44 North Market St., Boston, Mass., U.S.A.	As sold..... As guaranteed.. Standard sample (1818).
May 3	Corn and Grain Fertilizer.	24175	Sussex Mercantile Co., Ltd., Main St., Sussex, Kings Co., N.B.	3	15	New England Fertilizer Co., Boston, Mass., U.S.A.	As sold..... As guaranteed.. Standard sample (1833).
3	Farm and Garden	24176	W. B. McKay & Co., Sussex, N.B., King's Co.	3	15	Bowker Fertilizer Co., Boston, New York and Cincinnati, U.S.A.	As sold..... As guaranteed.. Standard sample (1745).
4	Potato Phosphate.	24177	John G. Hicks, Union St., Factory, King St., Moncton, N.B.	3	15	The Nova Scotia Fertilizer Co., Halifax, N.S.	As sold..... As guaranteed.. Standard sample (1822).
4	"	24178	C. P. Harris, Main St., Sugar Refinery Office, Moncton, N.B.	3	15	Swift's Lowell Fertilizer Co., Boston, Mass.	As sold..... As guaranteed.. Standard sample (1819).
15	Bradley's Brand XL.	24192	Henry E. Hill, King St., St. Stephen, N.B., Charlotte Co.	3	15	The American Agricultural Chemical Co., New York, U.S.A.	As sold... .. As guaranteed.. Standard sample (1778).
15	Standard Brand...	24193	Fred. E. Rose, King St., Charlotte Co., St. Stephen, N.B.	3	15	E. Frank Coe, New York, U.S.A.	As sold.....
16	Reid's High Grade Superphosphate	24194	Phillips & Phillips, Main Road, Woodstock, N.B., Carleton Co.	3	15	The American Agricultural Chemical Co., New York.	As sold.....
17	Special Potato Phosphate.	24195	J. C. Manzer, C. P. R. Station, Andover, Victoria Co., N.B.	3	...	The Provincial Chemical Fertilizer Co., St. John, N.B.	As sold..... As guaranteed.. Standard sample (1771).
17	Thomas' Phosphate Powder.	24196	J. W. Jamer, Andover, Victoria Co., N.B., farmer.	3	15	The Anglo-Canadian Chemical Co., St. John, N.B.	As sold..... As guaranteed.. Standard sample (1846).
19	Quinnipiac Climax Phosphate.	24197	John Gibson & Son, Queen St., Fredericton, York Co., N.B.	3	15	American Agricultural Chemical Co., New York, U.S.A.	As sold..... As guaranteed.. Standard sample (1794).

SESSIONAL PAPER No. 14

as Sold—by the Public Analysts—*Continued.*

RESULTS OF ANALYSIS.									Relative value per ton of 2,000 lbs.	No. of Sample.	Name of Analyst.	Remarks by the Public Analysts.
Nitrogen.		Phosphoric Acid.					Potash.	Moisture.				
Total.	As Ammonia.	Soluble in Water.	Citric Soluble.	Insoluble.	Total.	Available.						
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	cts.			
1.26	1.53	5.00	1.80	0.75	7.09	6.80	2.29	12.08	14 77	28285	M. Bowman..	Deficient in nitrogen and potash.
.....	2.00	1.00	2.00	5.00	8.00	7.00	4.00	.....	.....	
2.57	3.12	6.70	2.18	1.52	10.40	8.88	6.50	11.85	26 94			
.....			
2.91	3.54	2.27	3.16	4.17	9.60	5.43	2.55	20.04	19 88	24173	M. Bowman..	Unadulterated.
2.75	3.82	1.75	5.18	1.62	8.55	6.93	2.83	15.75	20 45	.....	
1.85	2.24	6.22	1.16	3.29	10.67	7.38	3.93	11.73	19 93	24174	" ..	"
.....	2.00	.....	.....	.....	8.00	7.00	4.00	.....	.....	
2.04	2.48	6.08	2.87	1.76	10.71	8.95	4.40	10.50	22 27			
1.15	1.39	4.73	2.25	2.03	9.01	6.98	6.37	9.92	19 02	24175	" ..	"
.....	1.50	.....	.....	.....	8.00	7.00	2.00	.....	.....	
1.54	1.87	6.39	1.29	1.91	9.59	7.68	3.26	8.75	16 72			
1.99	2.41	6.68	2.76	2.87	12.31	9.44	1.69	12.66	20 35	24176	" ..	"
.....	2.00	.....	.....	.....	9.00	8.00	2.00	.....	.....	
1.90	2.31	7.29	1.35	2.55	11.19	8.64	1.48	6.60	18 97			
0.95	1.16	5.02	3.57	1.11	9.70	8.59	2.08	9.46	15 58	24177	" ..	Deficient in nitrogen and potash.
.....	2.00	1.00	2.00	5.00	8.00	7.00	4.00	.....	.....	
2.57	3.12	6.70	2.18	1.52	10.40	8.88	6.50	11.85	26 94			
2.63	3.20	6.13	1.91	1.76	9.80	8.04	5.88	12.13	24 79	24178	" ..	Unadulterated.
.....	3.00	.....	.....	.....	9.00	8.00	6.00	.....	.....	
2.49	3.03	6.72	3.04	2.08	11.84	9.76	6.85	10.75	27 33			
2.02	2.45	5.82	2.62	3.74	12.18	8.44	2.25	13.61	20 08	24192	" ..	"
2.06	2.50	5.00	3.00	2.00	10.00	8.00	1.50	.....	.....	
2.24	2.72	5.57	3.56	2.72	11.85	9.13	2.25	14.20	21 26			
1.62	1.97	8.46	1.29	1.03	10.78	9.75	2.45	13.35	19 82	24193	" ..	Not registered and consequently illegally sold.
3.30	4.01	3.17	3.75	2.42	9.34	6.92	10.79	11.13	30 65	24194	" ..	" "
1.18	1.43	3.25	5.82	5.90	14.97	9.07	6.07	10.22	22 15	24195	" ..	Unadulterated.
.....	2.50	.....	.....	.....	.....	8.00	6.50	.....	.....	
2.17	2.63	5.43	3.66	5.11	14.20	9.09	7.60	8.30	27 03			
.....	.....	.....	13.85	2.44	16.69	13.85	.....	0.22	16 92	24196	" ..	"
.....	.....	.....	.....	.....	14.00	.....	.....	.....	.....
.....	.....	.....	14.52	2.43	16.95	14.52	.....	Trace	17 67			
1.04	1.26	6.30	1.82	1.73	9.85	8.12	2.01	13.30	15 61	24197	" ..	"
1.03	1.25	6.00	2.00	2.00	10.00	8.00	2.00	.....	.....	
1.70	2.05	7.20	2.87	2.08	12.15	10.07	2.51	11.17	20 70			

6-7 EDWARD VII., A. 1907

RESULTS of examining 115 samples of Fertilizers

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Lbs.	Cts.		
1906.			<i>District of Quebec— C. E. Roy, Inspector.</i>				
April 20	Tobacco Manure.	29094	Ed. Julien & Cie, Quebec.	....	10	W. A. Freeman, Hamilton, Ont.	As sold. As guaranteed.. Standard sample (1808).
	20 Sure Growth.....	29095	"	....	10	"	As sold. As guaranteed.. Standard sample (1802).
"	20 Potato Manure..	29096	"	....	10	"	As sold. As guaranteed.. Standard sample (1806).
"	20 Thomas' Phosphate	29097	"	....	10	"	As sold. As guaranteed.. Standard sample (1800).
"	23 Victor	29098	P. T. Legaré, Quebec..	....		Capelton Chemical Fertilizer Co., Buckingham, Que.	As sold. As guaranteed.. Standard sample (1873).
	23 Royal Canadian.	29099	"	....		"	As sold. As guaranteed.. Standard sample (1872).
"	23 Reliance	29100	"	....		"	As sold.
			<i>District of St. Hyacinthe—J. C. Rouleau, Inspector.</i>				
April 17	Vermont Phosphate.	501	Richard Dunn, South Durham, Que.	3 jar	....	Bowker Fertilizer Co., Boston, Mass	As sold. As guaranteed.. Standard sample (1754).
	17 6% Potato Fertilizer.	502	"	3 "	....	"	As sold. As guaranteed.. Standard sample (1752).
"	18 Sure Crop Bone Phosphate.	503	E. W. Mole, Cookshire, Que.	3 "	....	"	As sold. As guaranteed.. Standard sample (1750).
"	18 Potato and Vegetable Phosphate.	504	"	3 "	....	"	As sold. As guaranteed.. Standard sample (1745).
"	19 Superphosphate with Potash.	505	T. W. Wallace, Magog, Que.	3 "	....	"	As sold. As guaranteed.. Standard sample (1755).
"	24 Victor.....	506	Jos. Ferland, Sorel, Que.	3 "	....	Capelton Chemical & Fertilizer Co., Buckingham, Que.	As sold. As guaranteed.. Standard sample (1873).

SESSIONAL PAPER No. 14
as Sold —by the Public Analysts—*Continued.*

RESULTS OF ANALYSIS.										Relative value per ton of 2,000 lbs.	No. of Sample.	Name of Analyst.	Remarks by the Public Analysts.
Nitrogen.		Phosphoric Acid.					Potash.	Moisture.					
Total.	As Ammonia.	Soluble in Water.	Citric Soluble.	Insoluble.	Total.	Available.							
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p. c.	\$ cts.				
2.89	3.51	3.06	3.14	2.7.	8.91	3.81	8.41	21 17	29094	Dr. J. T. Donald.	According to guarantee	
3.65	3.00	3.82	4.31	1.42	8.00	8.13	4.00	9.20	27 03	.....		
2.95	4.43	3.82	4.31	1.42	9.55	8.13	4.88	9.20	27 03	" "	Superior to guarantee in potash.	
2.95	3.57	3.84	2.72	2.31	8.87	.....	6.40	8.21	24 71	29095		
4.06	3.00	4.67	5.75	8.00	10.42	3.00	8.45	29 06	" "	According to guarantee	
2.76	4.93	3.01	4.75	2.61	10.37	.....	5.52	8.89	24 48	29096		
2.38	3.00	3.85	4.25	1.50	8.00	8.10	5.00	7.65	24 41	" "	" "	
.....	2.89	.....	13.24	3.90	17.14	.....	.....	Trace.	17 29	29097
.....	17.20	Trace.	19 26	" "	Much above guarantee in total phosphoric acid.	
1.26	.....	.....	15.16	3.71	18.87	15.16	.....	Trace.	19 26	.....		
1.26	1.53	4.42	3.53	4.30	12.25	2.87	10.37	17 62	29098	" "	According to guarantee	
2.00	2.00	7.00	2.13	3.62	7.00	9.13	3.00	12.20	20 85	.....		
2.73	2.43	7.00	2.13	3.62	12.75	9.13	3.63	12.20	20 85	" "	According to guarantee	
2.73	3.31	4.78	2.52	4.58	11.88	.....	5.40	9.32	24 26	29099		
3.36	4.00	7.54	0.13	4.35	9.00	7.67	5.00	5.90	27 62	" "	Not registered and therefore illegally sold.	
1.45	4.08	4.49	3.13	5.03	12.65	.....	5.62	7.87	17 52	29100		
2.44	1.77	6.19	1.54	1.48	9.21	2.25	14.97	23 75	501	Dr. J. T. Donald.	According to guarantee	
2.38	3.00	7.03	1.61	2.55	10.00	8.00	4.00	8.70	23 39	.....		
1.17	2.89	5.75	1.68	1.92	11.19	8.64	4.34	8.71	17 07	502	" "	Under guarantee in available phosphoric acid and therefore adulterated.	
0.90	1.41	3.86	1.68	1.92	7.46	.....	6.03	6.06	20 39	.....		
1.26	1.00	5.22	3.01	2.01	10.24	6.00	2.00	16 68	503	" "	According to guarantee	
1.27	1.10	5.43	4.80	2.88	10.00	10.23	9.00	4.57	20 14	.....		
1.97	1.54	5.07	2.52	2.63	13.11	10.23	3.18	12.19	20 68	504	" "	Under guarantee in available phosphoric acid but very superior in potash and therefore not adulterated.	
1.85	2.44	7.93	1.51	1.91	10.00	9.44	2.00	7.20	21 54	.....		
0.27	2.14	5.37	2.30	12.52	2.42	9.25	15 75	505	" "	According to guarantee		
.....	0.32	8.31	1.93	1.59	11.00	10.00	1.00	5.85	15 39	.....		
1.56	1.99	5.99	14.26	3.20	13.95	20 03	506	" "	" "		
2.00	1.90	2.13	3.62	12.75	7.00	9.13	3.00	12.20	20 85			

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RESULTS of examining 115 samples of Fertilizers

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Lbs.	Cts.		
1906.			<i>District of St. Hyacinthe—J. C. Rouleau, Insp.—Continued.</i>				
April 27	Eclipse Fertilizer for all Crops.	507	G. W. Wilson, Knowlton, Que.	3 jar	....	American Chemical Fertilizer Co., Boston.	As sold. As guaranteed.. Standard sample (1781).
27	Sure Crop Bone Phosphate.	508	D. M. Mitchell, Water Road, Granby, Que.	3 "	..	Bowker Fertilizer Co., Boston, Mass.	As sold. As guaranteed.. Standard sample (1750).
27	6% Potato Fertilizer	509	" "	3 "	....	" "	As sold. As guaranteed.. Standard sample (1752).
27	Tucker's Imperial Bone Superphosphate for Potato	510	M. Mekirley, Granby Road, Abbotsford, Que.	3 "	..	American Agricultural & Chemical Co., Boston, Mass.	As sold. As guaranteed.. Standard sample (1788).
30	Sure Crop Bone Phosphate.	511	N. Ouellette, Kingsey, Que.	3 "	....	Bowker Fertilizer Co., Boston, Mass.	As sold. As guaranteed.. Standard sample (1750).
30	Victor.	512	Geo. McCracken, Danville, Que.	3 "	..	Capelton Chemical & Fertilizer Co., Buckingham. Que.	As sold. As guaranteed.. Standard sample (1873).

SESSIONAL PAPER No. 14

as Sold—by the Public Analysts—*Continued.*

RESULTS OF ANALYSIS.									Relative value per ton of 2,000 lbs.	No. of Sample.	Name of Analyst.	Remarks by the Public Analysts.
Nitrogen.		Phosphoric Acid.					Potash.	Moisture.				
Total.	As Ammonia.	Soluble in Water.	Citric Soluble.	Insoluble.	Total.	Available.						
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	\$ cts.			
1.39	1.69	4.32	3.68	2.81	10.81	.....	2.52	13.28	17 39	507	Dr J. T. Donald	According to guarantee
1.03	1.25	6.00	2.00	2.00	10.00	8.00	2.00	.....	.....	.....
1.17	1.42	5.75	4.53	1.79	12.07	10.28	2.08	11.15	18 46	.....	
1.32	1.59	5.17	2.93	2.37	10.47	.....	5.56	10.90	20 18	508	" "	" "
.....	1.00	.....	.....	.....	10.00	9.00	2.00	.....	.....	.....
1.27	1.54	5.43	4.80	2.88	13.11	10.23	3.18	4.57	20 14	.....	
2.96	3.59	5.39	2.98	2.52	10.89	.....	5.65	12.41	26 22	509	" "	Superior to guarantee in ammonia.
.....	1.00	.....	.....	.....	.....	7.00	6.00	6.00	.....	.....
0.90	1.10	5.75	3.33	1.47	10.55	9.08	6.33	5.05	20 39	.....	
1.35	1.64	5.88	2.45	1.93	10.26	.....	2.33	11.40	17 25	510	" "	Cannot identify it.
1.03	1.25	6.00	2.00	2.00	10.00	8.00	2.00	.....	.....	.....
1.33	1.61	5.70	3.53	2.07	11.30	9.23	2.00	11.40	17 86	.....	
1.29	1.57	5.66	2.18	2.42	10.26	.....	2.30	10.42	16 61	511	" "	According to guarantee
.....	1.00	.....	.....	.....	10.00	9.00	2.00	.....	.....	.....
1.27	1.54	5.43	4.80	2.88	13.11	10.23	3.18	4.57	20 14	.....	
1.97	2.38	5.58	1.67	4.51	11.76	2.92	11.77	19 51	512	" "	" "
.....	2.00	7.00	3.00		
2.00	2.43	7.00	2.13	3.62	12.75	9.13	3.63	12.20	20 85		

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RESULTS of examining 115 samples of Fertilizers

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				l <i>bs</i> .	C <i>ts</i> .		
1906.			<i>District of Montreal— J.J. Costigan, Inspector.</i>				
April 17	Bradley's 'B' Brand.	26734	Wm. Anderson, Hurd- mans, Que.	3	....	The American Agri- cultural Chemical Co., Buffalo, N.Y.	As sold..... As guaranteed.. Standard sample (1736).
" 17	Sure Crop	26735	Thos. Cogland, Hurd- mans, Que.	3	...	Bowker Fertilizer Co., Boston, Mass.	As sold..... As guaranteed.. Standard sample (1750).
" 17	Superphosphate...	26736	" "	3	....	" "	As sold..... As guaranteed.. Standard sample (1755).
" 20	Bradley's 'B' Brand.	26737	Fisher Bros., Hemming- ford, Que.	2	...	The American Agri- cultural Chemical Co., Buffalo, N.Y.	As sold..... As guaranteed.. Standard sample (1736).
" 20	Bowker's Vermont Brand.	26738	J. McCanse, Hemming- ford, Que.	2	....	Bowker Fertilizer Co., Boston, Mass.	As sold..... As guaranteed.. Standard sample (1754).
" 24	Sure Crop	26739	B. & J. Stevens, Bed- ford, Que.	2	....	" "	As sold..... As guaranteed.. Standard sample (1750).
" 24	6% Potato Fertilizer	26740	" "	2	....	" "	As sold..... As guaranteed.. Standard sample (1752).
May 3	Special	26741	Brodie & Harvie, Bleury St., Montreal.	2	....	Standard Chemical and Fertilizer Co.	As sold..... As guaranteed.. Standard sample (1812).
" 4	Celery and Vege- table.	26742	Wm. Ewing & Co., Mc- Gill St., Montreal.	2	....	Freeman Fertilizer Co.	As sold..... As guaranteed.. Standard sample (1804).
" 4	Bone Potash...	26743	" "	2	....	" "	As sold..... As guaranteed.. Standard sample (1803).
" 4	Victor	26744	T. Kenny & Son, Hal- lerton, Que.	2	...	Nichols Chemical Co.	As sold..... As guaranteed.. Standard sample (1873).
" 4	Royal Canadian...	26745	R. J. Latimer & Co., Montreal.	2	....	" "	As sold..... As guaranteed.. Standard sample (1872).

SESSIONAL PAPER No. 14

as Sold—by the Public Analysts—Continued.

RESULTS OF ANALYSIS.										Relative value per ton of 2,000 lbs.	No. of Sample.	Name of Analyst.	Remarks by the Public Analysts.
Nitrogen.		Phosphoric Acid.					Potash.	Moisture.					
Total.	As Ammonia.	Soluble in Water.	Citric Soluble.	Insoluble.	Total.	Available.							
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	% cts.				
1.15	1.40	5.84	2.58	1.92	10.34	4.18	12.59	18 52	26734	Dr. J. T. Donald.	Under guarantee in ammonia; therefore adulterated.	
2.06	2.50	6.00	2.00	1.00	9.00	8.00	1.50	.....	.....		
2.24	2.72	6.90	3.82	2.71	13.43	10.72	1.60	12.57	22 50				
1.15	1.40	6.08	2.00	1.67	9.75	3.54	13.16	17 45	26735	"	According to guarantee.	
.....	1.00	.....	.....	.....	10.00	9.00	2.00	.....	.....		
1.27	1.54	5.43	4.80	2.88	13.11	10.23	3.18	4.57	20 14				
0.15	0.18	6.38	2.84	2.27	11.49	2.99	14.85	14 96	26736	"	" "	
.....	.....	.....	.....	.....	11.00	10.00	1.00	.....	.....		
.....	.....	8.31	1.93	1.59	11.83	10.24	2.83	5.85	15 39			
1.02	1.24	4.19	2.16	2.58	8.93	3.53	14.69	15 18	26737	"	Under guarantee in ammonia; therefore adulterated.	
2.06	2.50	6.00	2.00	1.00	9.00	8.00	1.50	.....	.....		
2.24	2.72	6.90	3.82	2.71	13.43	10.72	1.60	12.57	22 50				
1.97	2.38	5.32	2.43	2.21	9.96	3.02	16.25	19 43	26738	"	According to guarantee.	
.....	3.00	.....	.....	.....	10.00	8.00	4.00	.....	.....		
2.38	2.89	7.03	1.61	2.55	11.19	8.64	4.34	8.70	23 39				
1.18	1.44	5.76	2.56	2.55	10.87	2.13	11.98	16 63	26739	"	" "	
.....	1.00	.....	.....	.....	10.00	9.00	2.00	.....	.....		
1.27	1.54	5.43	4.80	2.88	13.11	10.23	3.18	4.57	20 14				
0.96	1.16	4.24	3.81	2.31	10.36	4.94	12.31	17 62	26740	"	" "	
.....	1.00	.....	.....	.....	.....	7.00	6.00	6.00	.....			
0.90	1.10	5.75	3.33	1.47	10.55	9.08	6.33	5.05	20 39				
4.74	5.75	8.04	2.26	0.55	10.85	6.51	12.22	34 93	26741	"	" "	
.....	3.50	8.00	.....	.....	.....	10.00	6.00	.....	.....		
2.94	3.57	6.07	2.43	1.95	10.45	8.50	6.72	12.30	27 24				
4.14	5.02	2.94	3.38	1.73	8.05	5.54	8.76	27 39	26742	"	" "	
.....	6.00	.....	.....	.....	9.00	.....	6.00	.....	.....		
9.24	11.22	2.43	4.44	0.80	7.67	6.87	8.07	5.85	47 51				
2.66	3.23	6.30	2.29	6.67	15.26	5.78	5.61	29 10	26743	"	" "	
.....	2.00	.....	.....	.....	9.00	.....	6.00	.....	.....		
5.81	7.05	4.03	3.32	1.28	8.63	7.35	8.59	7.20	37 20				
1.82	2.21	4.91	2.34	5.18	12.43	1.94	11.56	18 14	26744	"	" "	
.....	2.00	.....	.....	.....	7.00	.....	3.00	.....	.....		
2.00	2.43	7.00	2.13	3.62	12.75	9.13	3.63	12.20	20 85				
2.49	3.02	5.06	1.14	3.81	10.01	4.34	9.53	21 27	26745	"	" "	
.....	4.00	9.00	5.00				
3.36	4.08	7.54	0.13	4.35	12.02	7.67	5.62	5.90	27 62				

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RESULTS of examining 115 samples of Fertilizers

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Lbs.	Cts.		
1906.			District of Ottawa— A. E. Sanderson, Insp.				
April 28	Thomas' Phosphate Powder.	29236	Graham Bros., Sparks street, Ottawa.	2½	37	H. & E. Albert, London, Eng.	As sold.....
" 28	Bone Meal.....	29235	" " "	2½	10	W. A. Freeman, Hamilton, Ont.	As sold..... As guaranteed.. Standard sample (1809).
May 11	Superphosphate of Lime.	29267	Standard Fertilizer & Chemical Co., Ltd., Smith's Falls, Ont.	3bot	....	Vendors.....	As sold..... As guaranteed.. Standard sample (1811).
" 11	Standard Brand...	29268	" " "	3 "	....	" .....	As sold..... As guaranteed.. Standard sample (1813).
" 11	Special Brand.....	29269	" " "	3 "	...	"	As sold..... As guaranteed.. Standard sample (1812).
" 11	Fertilizer No. 1...	29270	" " "	3 "	....	" .....	As sold..... As guaranteed.. Standard sample (1815).
" 11	Royal... ..	29271	" " "	3 pk	.	"	As sold... .. As guaranteed.. Standard sample (1816).
" 11	Star.....	29272	" " "	3 "	....	" .....	As sold.... .. As guaranteed.. Standard sample (1814).
" 17	Fertilizer No. 1...	29273	Kenneth McDonald, Market Square, Ottawa.	3lbs	....	Capelton Chemical & Fertilizer Co., Buckingham, Que.	As sold..... As guaranteed.. Standard sample (1874).
" 17	Swift's Lawn Fertilizer or Ground Bone.	29274	" " "	3 "	....	Swift, Chicago, U.S.	As sold..... As guaranteed.. Standard sample (1821).
" 17	Market Garden Special.	29275	" " "	3 "	....	Nichols Chemical Co. Capelton.	As sold.....
" 17	Victor.....	29276	" " "	3cns	....	Capelton Chemical & Fertilizer Co., Buckingham, Que.	As sold..... As guaranteed.. Standard sample (1873).
" 17	Nitrate of Soda....	29265	Graham Bros., Sussex St., Ottawa.	2lbs	...	W. A. Freeman, Hamilton, Ont.	As sold..... As guaranteed.. Standard sample
			District of Kingston— J. Hogan, Inspector				
April 11	Flower Fertilizer..	28588	W.J. Peters, Brock St., Kingston, Ont.	6lbs	75	" "	As sold.....
" 11	Potato Manure ...	28589	" " "	6 "	15	" "	As sold..... As guaranteed.. Standard sample (1806).
" 18	Standard.....	29409	A. E. Cameron, Brockville, Ont.	6 "	09	Read, New York....	As sold.....

SESSIONAL PAPER No. 14

as Sold -by the Public Analysts -*Continued.*

RESULTS OF ANALYSIS.										No. of Sample.	Name of Analyst.	Remarks by the Public Analysts.
Nitrogen.		Phosphoric Acid.							Relative value per ton of 2,000 lbs.			
Total.	As Ammonia.	Soluble in Water.	Citric Soluble.	Insoluble.	Total.	Available.	Potash.	Moisture.				
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p. c.	\$ cts.			
3.46	4.20	7.54	2.70	1.85	12.09	.....	3.28	11.03	28 35	29236	Dr. J. T. Donald.	Standard sample cannot be identified. According to guarantee
4.13	5.02	.....	14.62	9.07	23.69	.....	.....	6.81	34 30	29235	" "	
2.52	3.00	.....	15.50	10.00	25.50	15.50	.....	5.90	28 61			
0.26	0.31	12.18	1.97	2.26	16.41	.....	.....	14.93	18 35	29267	" "	According to standard in every respect.
0.17	0.20	9.82	2.00	4.15	15.97	11.82	.....	9.15	15 79			
2.59	3.14	5.77	3.39	2.07	11.23	.....	2.63	7.13	22 71	29268	" "	According to guarantee
1.96	2.50	.....	.....	.....	11.00	9.00	2.00	.....	.....	
1.96	2.38	6.05	3.95	2.37	12.37	10.00	1.56	8.60	20 53			
2.84	3.45	5.61	2.81	1.66	10.08	.....	7.41	11.24	27 39	29269	" "	" "
2.94	3.50	.....	.....	.....	10.00	8.00	6.00	.....	.....	
2.94	3.57	6.07	2.43	1.95	10.45	8.50	6.72	12.30	27 24			
2.84	3.45	5.43	3.34	2.05	10.82	.....	1.61	13.75	22 07	29270	" "	" "
2.22	2.00	.....	.....	.....	.....	9.00	2.00	.....	.....	
2.22	2.58	5.40	3.35	2.15	10.90	8.75	1.50	13.25	19 84			
1.70	2.06	4.09	3.56	1.43	9.08	.....	3.15	4.18	18 19	29271	" "	" "
1.72	2.00	.....	.....	.....	.....	8.00	3.00	.....	.....	
1.72	2.21	4.85	2.78	2.37	10.00	7.63	2.51	6.15	17 93			
1.75	2.12	2.68	1.61	1.03	5.32	.....	1.97	2.37	13 22	29272	" "	" "
1.82	2.00	.....	.....	.....	.....	5.00	2.00	.....	.....	
1.82	2.21	3.35	3.10	1.30	7.75	6.45	1.76	3.20	15 76			
0.56	0.68	2.46	4.50	3.79	10.75	.....	0.24	10.04	11 18	29273	" "	Under guarantee in available phosphoric acid and therefore adulterated.
0.35	.....	.....	.....	.....	14.00	.....	.....	.....	.....
0.35	0.42	7.32	3.01	4.37	14.70	10.33	.....	12.20	14 59			
4.17	5.06	.....	14.64	8.76	23.40	.....	.....	6.99	32 91	29274	" "	According to guarantee
.....	3.00	.....	.....	.....	25.00	.....	.....	.....	.....
2.79	3.38	.....	19.03	8.64	27.67	19.03	.....	2.82	33 01			
2.46	2.98	4.54	2.15	2.83	9.52	.....	3.88	11.73	20 90	29275	" "	Not registered.
1.70	2.06	5.02	2.28	5.82	13.12	.....	2.80	7.34	18 86	29276	" "	
2.00	2.00	.....	.....	.....	7.00	.....	3.00	.....	.....	
2.00	2.43	7.00	2.13	3.62	12.75	9.13	3.63	12.20	20 85			
15.72	19.10	.....	.....	.....	.....	.....	.....	0.96	22 00	29265	" "	" "
1.86	2.26	4.32	5.44	1.62	11.38	.....	2.16	2.98	19 12	28588	Dr. W. H. Ellis	Not registered.
2.39	2.90	3.87	4.53	2.32	10.72	.....	4.52	6.78	22 95	28589	"	
2.38	5.00	.....	.....	.....	12.00	.....	.....	.....	.....			Below guarantee in ammonia and therefore adulterated.
2.38	2.89	3.85	4.25	1.50	9.60	8.10	6.56	7.65	24 11			
0.91	1.10	7.13	1.55	2.01	10.69	3.57	11.08	17 51	29109	"	According to guarantee

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RESULTS of examining 115 samples of Fertilizers

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Lbs.	Cts.		
1906.			District of Kingston— J. Hogan, Inspector— Concluded.				As guaranteed.. Standard sample (1798).
April 18	Farmer's Friend	29410	A. E. Cameron, Brock- ville, Ont.	6	09	Read, New York....	As sold.....
" 18	Potato Special Leader	29411	" " "	6	10	" " "	" " " " " "
" 18	Blood and Bone...	29412	" " "	6	08	" " "	" " " " " "
" 18	Vegetable and Vine	29413	" " "	6	12	" " "	" " " " " "
" 18	Guano.	29414	H. Brown & Son, Brock- ville, Ont.	6	12	Bradley, Boston, Mass.	" " " " " "
" 18	Complete Manure.	29415	" " "	6	09	" " "	As guaranteed.. Standard sample (1736). As sold..... As guaranteed.. Standard sample (1737).
May 14	Bone Meal .	30084	William Rennie, seed merchant, Toronto, Ont.	2	10	W. Freeman & Co., Hamilton, Ont.	As sold..... As guaranteed.. Standard sample (1809).
" 14	Sure Growth	30085	J. A. Simmers, seed merchant, Toronto, Ont.	2	10	" " "	As sold..... As guaranteed.. Standard sample (1802).
" 14	Bone Meal .	30086	W. Harris & Co., Toronto, Ont.	2	10	Vendors	As sold..... As guaranteed.. Standard sample (1836).
" 14	Blood, Flesh and Bone.	30087	" " "	2	10	" " "	As sold.....
" 16	Thomas' Phos- phates	30088	The White Co., Ltd., hardware merchants, Collingwood, Ont.	2	10	Thomas Phosphate Fertilizer Co., Tor- onto, Ont.	" " " " " "
" 16	Bone Meal.....	30089	The Collingwood Pack- ing Co., Collingwood, Ont.	2	10	Vendors.....	" " " " " "
" 1	Blood Fertilizer..	30090	" " "	2	10	" " "	" " " " " "
" 18	Sheep Manure ...	30091	John A. Bruce, seed merchant, Hamilton.	1	10	American Agricul- tural Co., Chicago.	" " " " " "
" 18	Ground Bone	30092	" " "	1	10	American Agricul- tural Co., Buffalo, U.S.	" " " " " "
" 18	Sure Growth .	30093	W. A. Freeman, Ham- ilton, Ont.	1½	10	Vendors.....	" " " " " "
" 18	Bone Potash...	30694	" " "	1½	10	" " "	As guaranteed.. Standard sample (1802). As sold..... As guaranteed.. Standard sample (1803).

SESSIONAL PAPER No. 14

as Sold—by the Public Analysts--*Continued.*

RESULTS OF ANALYSIS.										Relative value per ton of 2,000 lbs.	No. of Sample.	Name of Analyst.	Remarks by the Public Analysts.
Nitrogen.		Phosphoric Acid.											
Total.	As Ammonia.	Soluble in Water.	Citric Soluble.	Insoluble.	Total.	Available.	Potash.	Moisture.					
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	\$ cts.				
2.06	2.50	5.00	3.00	2.00	10.00	8.00	1.50	.....	21 03				
2.20	2.67	6.71	2.72	2.72	12.15	9.43	1.70	13.67					
1.11	1.35	9.07	1.43	1.32	11.82	....	2.26	12.33	18 87	29410	Dr. W.H.Ellis	Not registered.	
1.04	1.26	2.90	1.67	4.91	9.48	....	6.47	6.49	16 78	24911	"	Not to be found among the standard samples.	
0.63	0.77	6.26	1.65	5.21	13.12	....	1.08	9.82	14 10	29412	"	"	"
0.84	1.02	6.42	1.66	2.48	10.56	....	5.42	10.58	18 53	29413	"	"	"
2.67	3.24	5.55	2.75	1.78	10.08	....	1.91	11.87	21 19	29414	"	Unadulterated.	
2.06	2.50	6.00	2.00	1.00	9.00	8.00	1.50	.....	22 50				
2.24	2.72	6.90	3.82	2.71	13.43	10.72	1.60	12.57					
1.94	2.36	6.98	2.73	0.86	10.57	....	6.91	11.90	25 12	29415	"	Deficient in nitrogen and therefore adulterated.	
3.29	4.00	6.00	2.00	1.00	9.00	8.00	7.00	.....				
3.23	3.93	6.78	1.86	2.39	11.03	8.64	7.91	12.40	29 77				
2.43	2.95	.....	15.99	5.49	21.48	....	0.20	7.45	27 68	30084	"	Below guarantee.	
.....	3.00	.....	.....	.....	23.00	.....	.....	.....	.....
2.52	3.00	.....	15.50	10.00	25.50	15.50	.....	5.90	28 61				
2.36	2.86	3.03	4.79	2.50	10.32	.....	4.13	17.29	21 79	30085	"	Unadulterated.	
.....	.....	.....	.....	.....	8.00	.....	3.00	.....	.....		
4.06	4.93	4.67	5.75	.....	10.42	10.42	3.34	8.45	29 06				
3.39	4.12	....	17.79	5.20	19.99	.....	0.13	3.62	22 77	30086	"	"	
3.64	4.42	.....	13.63	7.99	21.62	13.63	.....	4.70	29 85				
6.70	8.14	....	6.04	2.82	8.86	.....	0.44	8.07	30 70	30087	"	Not registered.	
.....	.....	.....	14.69	2.98	17.67	.....	.....	0.10	18 23	30088	"	Cannot be identified among the standard samples.	
8.73	10.60	....	5.60	1.10	6.70	.....	0.28	13.30	36 45	30089	"	Not registered.	
6.86	8.33	.....	9.30	3.44	12.74	.....	0.20	7.15	34 78	30090	"	"	
2.36	2.86	0.93	0.22	0.30	1.45	.....	2.12	12.79	11 58	30091	"	"	
2.08	2.52	.....	16.00	10.36	26.36	.....	0.21	4.96	27 98	30092	"	"	
2.26	2.74	1.28	6.36	2.36	10.00	.....	4.17	7.09	21 07	30093	"	Deficient in nitrogen ; therefore adulterated.	
.....	.....	.....	.....	.....	8.00	.....	3.00	.....	.....		
4.06	4.93	4.67	5.75	.....	10.42	10.42	3.34	8.45	29 06				
3.36	4.08	1.15	6.27	2.01	9.43	.....	6.62	6.50	26 91	30094	"	Up to guarantee.	
.....	2.00	.....	.....	.....	9.00	.....	6.00	.....	.....		
5.81	7.05	4.03	3.32	1.28	8.63	7.35	8.59	7.20	37 20				

RESULTS of examining 115 samples of Fertilizers

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report
				Lbs.	Cts.		
1906.			<i>District of Toronto— T. Kidd, Acting Inspector</i> Concluded.				
June 18	Potato Manure . . .	30095	W.A. Freeman Hamilton, Ont.	1½	10	Vendors	As sold As guaranteed . . Standard sample (1806).
" 18	Bone Meal	30096	" " . . .	1½	10	"	As sold As guaranteed . . Standard sample (1809).
			<i>District of London— T. Kidd, Inspector.</i>				
April 23	"	22480	Darch & Hunter, seed merchants, London, Ont.	2	5	Michigan Carbon Works, Detroit.	As sold As guaranteed . . Standard sample (1857).
" 25	Ground Bone	22485	D. W. Newcombe, St. Thomas, Ont.	1	5	Steel, Briggs & Co., Toronto, seed merchants.	As sold
" 26	Early Fertilizer . . .	22493	George Gardiner, seed merchant.	1½	5	W. A. Freeman, Hamilton, Ont.	"
" 26	Thomas' Phosphate.	22494	King, Mill & Co., millers, Sarnia, Ont.	1½	5	Vendors	"
May 1	Sure Growth	22499	Robertson & Wilson, Ingersol, Ont.	1½	5	W. A. Freeman, Hamilton, Ont.	" As guaranteed . . Standard sample (1802).
" 1	"	22500	A. Hastings & Co., coal merchants, Woodstock, Ont.	1½	5	" " . . .	As sold As guaranteed . . Standard sample (1802).
" 2	Bone Flower	30001	James Hewer & Son, seed merchants, Guelph, Ont.	1½	5	" " . . .	As sold
			<i>District of Calgary— W. Fletcher, Inspector.</i>				
April 28	Fertilizer	28648	E. M. Carpenter, Edmonton.	3 pgs-	75	Bowker Fertilizer Co., Boston, U.S.	As sold
" 30	"	28650	F. Cowles, Strathcona.	1½ lbs.	35	Purchased from J. Winer Co., Hamilton, Ont.	As sold
May 1	"	28651	J. Y. Griffin Co., Winnipeg, Man.	3 lbs.	10	Vendors	As sold

SESSIONAL PAPER No. 14

as Sold -- by the Public Analysts—*Continued.*

RESULTS OF ANALYSIS.										Relative value per ton of 2,000 lbs.	No. of Sample.	Name of Analyst.	Remarks by the Public Analysts.
Nitrogen.		Phosphoric Acid.					Potash.	Moisture.					
Total.	As Ammonia.	Soluble in Water.	Citric Soluble.	Insoluble.	Total.	Available.							
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	\$ cts.				
3.36	4.08	1.08	6.23	2.16	9.47	.....	6.66	7.56	26 86	30095	Dr. W. H. Ellis	Up to guarantee.
.....	3.00	.....	.....	.....	8.00	.....	5.00	.....	.....		
2.38	2.89	3.85	4.25	1.50	9.60	8.10	6.56	7.65	24 41				
4.30	5.22	.....	15.28	8.23	23.51	.....	0.06	8.28	33 94	30096	" ..	Fully up to guarantee.
.....	3.00	.....	.....	.....	23.00	.....	.....	.....	.....
2.52	3.00	.....	15.50	10.00	25.50	15.50	.....	5.90	28 56			
1.18	1.43	.....	17.54	14.96	32.50	.....	0.13	2.17	26 57	22480	" ..	Unadulterated.
.....	1.50	.....	.....	.....	25.00	.....	.....	.....	.....
1.33	1.61	.....	20.15	11.51	31.66	20.15	.....	9.25	.....			
3.99	4.84	.....	13.85	9.34	23.19	.....	0.13	4.83	31 72	22485	" ..	Not to be found among the standard samples.
1.70	2.07	4.14	2.93	1.02	8.09	.....	4.33	12.68	18 59	22493	" ..	" "
.....	.....	.....	12.90	5.06	17.96	.....	.....	0.75	17 73	22494	" ..	Not to be identified among the standard samples.
1.72	2.09	3.45	5.17	2.62	11.24	.....	3.38	3.44	19 82	22499	" ..	Below guarantee in nitrogen.
.....	.....	.....	.....	.....	8.00	.....	3.00	.....	.....		
4.06	4.93	4.67	5.75	.....	10.42	10.42	3.34	8.45	29 06			
3.12	3.79	2.20	5.28	2.65	10.13	.....	3.57	3.40	23 40	22500	" ..	Unadulterated.
.....	.....	.....	.....	.....	8.00	.....	3.00	.....	.....		
4.06	4.93	4.67	5.75	.....	10.42	10.42	3.34	8.45	29 06			
3.22	3.91	.....	12.40	1.03	13.49	.....	0.47	3.17	25 36	30001	" ..	Not registered.
2.52	3.06	0.90	9.58	2.88	13.36	.....	3.00	4.14	24 05	28648	Dr. C. J. Fagan	Not so described that brand can be recognized.
2.52	3.06	Tr'ce	4.32	0.52	4.84	.....	.....	3.52	13 47	28650	" ..	" "
6.16	7.48	None	13.32	3.40	16.72	.....	.....	9.00	36 51	28651	" ..	" "

RESULTS of examining 115 samples of Fertilizers

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher.	Inspector's Report.
				Lbs.	Cts.		
1906.			<i>District of British Columbia—E. B. Parkinson, Inspector.</i>				
April 17	Nitrate of Soda...	28107	M. J. Henry, Vancouver, B.C.	3	15	Victoria Chemical Co., Victoria.	As sold..... As guaranteed... Standard sample (1867).
" 17	Muriate of Potash.	28108	" " "	3	15	" " "	As sold..... As guaranteed... Standard sample (1870).
" 17	Bone Meal.....	28109	" " "	3	10	" " "	As sold.....
" 19	Blood and Bone...	28124	Charles Nelson, Vancouver, B.C.	3	50	Portland Seed Co., Portland, Oregon.	"
" 20	" " ..	28078	Sylvester Feed Co., Victoria, B.C.	3	15	Vendors	"
" 20	Ground Bone...	28079	" " "	3	10	"	"
" 24	Fish Guano.....	28083	Brackman & Kerr, New Westminster, B.C.	3	10	Fraser River Oil & Guano Co., Vancouver.	"
" 24	Nitrate of Soda...	28084	" " "	3	10	Victoria Chemical Co., Victoria, B.C.	"
" 24	Kainite	28085	Brackman & Ker, New Westminster, B.C.	3	10	Victoria Chemical Co Victoria, B.C.	As guaranteed... Standard sample (1867).
" 24	Superphosphate of Lime.	28086	" " "	3	10	" " "	As sold..... As guaranteed... Standard sample (1868).
" 24	Bone Meal.....	28087	" " "	3	10	C. H. Lilly, Seattle, Wash.	As sold.....
" 24	"	28088	Wm. Rennie, Vancouver, B.C.	3	15	" " "	"

SESSIONAL PAPER No. 14

as Sold—by the Public Analysts—*Concluded.*

RESULTS OF ANALYSIS.									Relative value per ton of 2,000 lbs.	No. of Sample.	Name of Analyst.	Remarks by the Public Analysts.
Nitrogen.		Phosphoric Acid.					Potash.	Moisture.				
Total.	As Ammonia.	Soluble in Water.	Citric Soluble.	Insoluble.	Total.	Available.						
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	\$ cts.			
15.80	19.18	.....	.....	.....	.....	.....	.....	3.54	53 72	28107	Dr.C.J. Fagan	Genuine.
16.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
13.86	16.82	.....	.....	.....	.....	.....	.....	1.50	47 12	.	.....	.....
.....	.....	.....	.....	.....	.....	.....	52.08	0.48	52 08	28108	"	"
.....	.....	.....	.....	.....	.....	.....	50.00	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	51.96	2.20	51 96	.....	.....	.....
3.64	4.42	Tr'ce	13.80	3.00	16.80	.....	.....	7.36	28 46	28109	"	Not registered.
2.52	3.06	2.00	3.78	0.92	6.70	.....	.....	11.18	15 41	28124	"	"
5.32	6.46	Tr'ce	14.00	3.00	17.00	.....	.....	5.04	34 38	28078	"	"
2.80	3.40	"	8.80	4.00	12.80	.....	.....	5.30	20 40	28079	"	"
10.64	12.90	0.50	6.00	0.30	6.80	.....	.....	7.52	43 47	28083	"	"
16.15	19.60	.....	.....	.....	.....	.....	.....	1.38	37 91	28084	"	"
16.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
13.86	16.82	.....	.....	.....	.....	.....	.....	1.50	47 12	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	12.30	3.64	12 30	28085	"	Genuine
.....	.....	.....	.....	.....	.....	.....	12.00	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	12.36	6.60	12 36	.....	.....	.....
.....	.....	16.80	None	0.20	17.00	.....	0.30	7.50	20 52	28086	"	"
0.28	0.34	17.22	0.86	0.77	18.85	18.08	.....	13.05	22 78	.....	.....	.....
3.64	4.42	Tr'ce	15.10	4.90	20.00	.....	.....	7.76	30 46	28087	"	Not registered.
4.20	5.10	"	17.60	4.40	22.00	.....	.....	7.90	34 96	28088	"	"

